About Your Printer

- Identifying Your Printer
- Understanding the Operator Panel
- Using the Operator Panel Menus

Identifying Your Printer

The printer is available in two base models. The following table indicates some of the differences between the models.

	5210n	5310n
Input capacity	600 sheets (500-sheet tray + 100-sheet multipurpose feeder)	600 sheets (500-sheet tray + 100-sheet multipurpose feeder)
Output capacity	250 sheets	250 sheets
Standard memory	64MB	128MB
Maximum memory capacity	576MB	640MB

NOTE: The printer model number is shown on the operator panel.

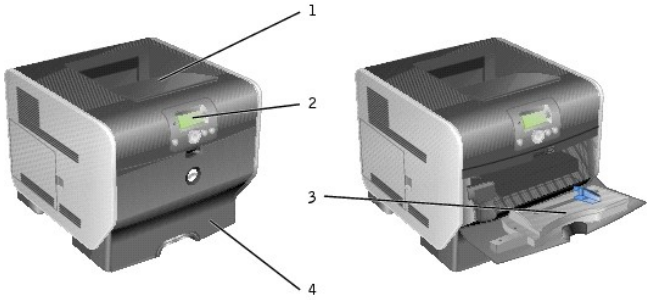
Configured Models

The following illustrations show a standard network and fully configured printer. If you attach print media handling options to the printer, it may look more like the fully configured model.

Items denoted with an asterisk (*) are options. For more information about installing input options, see Installing and Removing Options or the instructions that came with the option.

To purchase any of the options below, go to www.dell.com or contact your Dell Sales Representative.

Standard Network



Number:	Part:
1	Standard output bin (250 sheets)
2	Operator panel
3	Multipurpose feeder (100 sheets)
4	Standard tray (500 sheets)

Fully Configured

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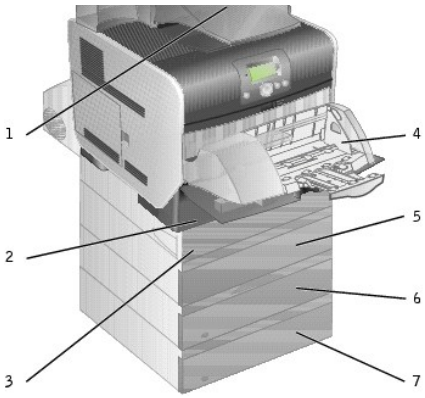
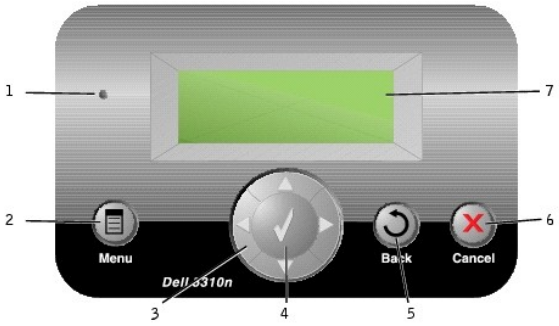


NOTE: You can install up to four optional paper trays, or three trays and a duplex unit.

Number:	Part:
1	Output expander (650 sheets)
2	Tray 1/Standard tray (500 sheets)
3	Duplex unit (500 sheets)
4	Envelope feeder (85 envelopes)
5	Tray 2 (250 or 500 sheets)
6	Tray 3 (250 or 500 sheets)
7	Tray 4 (250 or 500 sheets)

CAUTION: Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using more than one input option or a duplex unit and an input option.

Understanding the Operator Panel



Number:	Use the:		To:
1	Indicator light		Determine whether the printer is on, busy, idle, processing a job, or requires operator intervention. • Off — Power is off. • Solid green — Printer is on, but idle. • Blinking green — Printer is warming up, processing data, or printing a job. • Solid amber — Operator intervention is required.
2	**Menu** button		Open the menu index. **NOTE:** The printer must be in the **Ready** state to access the menu index. A message indicating the menus are unavailable will appear if the printer is not ready.
3	Navigation buttons		▲ ▼ Move up and down lists. When navigating through a list using the **Up** or **Down** arrow button, the cursor moves one line at a time. Pressing the **Down** arrow button at the bottom of the screen changes the screen to the next whole page.
			◀ ▶ Move within a screen such as moving from one menu index item to another. The **Left** or **Right** arrow button is also

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			used to scroll through text that will not fit on the screen.
4	**Select** button		Initiate action on a selection. Press **Select** when the cursor appears next to the selection you want such as following a link, submitting a configuration item, or when you want to start or cancel a job.
5	**Back** button		Return to the last screen you viewed. **NOTE:** Changes made on a screen will not be applied if you press the **Back** button.
6	**Cancel** button		Stop the mechanical operation of the printer. After pressing **Cancel**, the message **Stopping** appears. When the printer has stopped, the status line in the operator panel shows **Stopped**, and a list of options appears.
7	Display		View messages and graphics describing the current state of the printer and indicating possible printer problems you must resolve. The operator panel display is a 4-line, back-lit, grayscale display that can show both graphics and text.

Using the Operator Panel Menus

A number of menus are available to make it easy for you to change printer settings. The table shows the menu index on the operator panel and the menus and items available under each menu. For more information about menus and menu items, see Understanding the Operator Panel Menus.

Menu	Menu Item
Paper Menu	ı Default Source ı Paper Size/Type ı Configure MP ı Envelope Enhance ı Substitute Size ı Paper Texture ı Paper Weight ı Paper Loading ı Custom Types ı Universal Setup ı Bin Setup
Reports	ı Menu Settings Page ı Device Statistics ı Network Setup Page ı Network <x> Setup Page ı Profiles List ı NetWare Setup Page ı Print Fonts ı Print Directory
Settings	ı Setup Menu ı Finishing Menu ı Quality Menu ı Utilities Menu ı PostScript Menu ı PCL Emul Menu ı HTML Menu ı Image Menu
Security	ı Job Expiration
Network/Ports	ı TCP/IP ı Standard Network ı Network <x> ı Standard USB ı USB <x> ı Parallel ı Parallel <x> ı NetWare ı AppleTalk

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Appendix

- Dell Technical Support Policy
- Contacting Dell
- Warranty and Return Policy

Dell Technical Support Policy

Technician-assisted technical support requires the cooperation and participation of the customer in the troubleshooting process and provides for restoration of the Operating System, application software and hardware drivers to the original default configuration as shipped from Dell, as well as the verification of appropriate functionality of the printer and all Dell-installed hardware. In addition to this technician assisted technical support, online technical support is available at Dell Support. Additional technical support options may be available for purchase.

Dell provides limited technical support for the printer and any Dell-installed software and peripherals. Support for third-party software and peripherals is provided by the original manufacturer, including those purchased and/or installed through Software & Peripherals (DellWare), ReadyWare, and Custom Factory Integration (CFI/DellPlus).

Contacting Dell

You can access Dell Support at support.dell.com. Select your region on the WELCOME TO DELL SUPPORT page, and fill in the requested details to access help tools and information.

You can contact Dell electronically using the following addresses:

- World Wide Web
  www.dell.com/
  www.dell.com/ap/ (for Asian/Pacific countries only)
  www.euro.dell.com (for Europe only)
  www.dell.com/la/ (for Latin American countries)
  www.dell.com/jp (for Japan only)

- Anonymous file transfer protocol (FTP)
  ftp.dell.com/
  Log in as user: anonymous, and use your email address as your password.

- Electronic Support Service
  mobile_support@us.dell.com
  support@us.dell.com
  apsupport@dell.com (for Asian/Pacific countries only)
  support.euro.dell.com (for Europe only)
  http://support.jp.dell.com/jp/jp/tech/email/ (for Japan only)

- Electronic Quote Service
  sales@dell.com
  apmarketing@dell.com (for Asian/Pacific countries only)

- Electronic Information Service
  info@dell.com

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Dell Inc. ("Dell") manufactures its hardware products from parts and components that are new or equivalent to new in accordance with industry-standard practices. For information about the Dell warranty for your printer, refer to the *Owner's Manual*.

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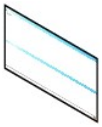
• Drivers for my printer • My *User's Guide*	*Drivers and Utilities CD* Use the CD to uninstall/reinstall drivers or access your documentation. Readme files may be included on your CD to provide last-minute updates about technical changes to your printer or advanced technical reference material for experienced users or technicians.
How to set up my printer	*Setting Up Your Printer* poster 
• Safety information • How to set up and use my printer • Warranty information	*Owner's Manual*
Express Service Code and Service Tag number	 This label is located under the front cover of the printer.
• Latest drivers for my printer • Answers to technical service and support questions • Documentation for my printer	Dell Support Website: support.dell.com The Dell Support website provides several online tools, including: • Solutions — Troubleshooting hints and tips, articles from technicians, and online courses • Upgrades — Upgrade information for components, such as memory • Customer Care — Contact information, order status, warranty, and repair information • Downloads — Drivers • Reference — Printer documentation and product specifications
• How to use Windows XP • Documentation for my printer	Windows XP Help and Support Center 1. Click **Start**→ **Help and Support**. 2. Type a word or phrase that describes your problem, and then click the **arrow** icon. 3. Click the topic that describes your problem. 4. Follow the instructions shown on the screen.

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1 April 1989

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Dell™ Laser Printer 5210n / 5310n User's Guide

Click the links to the left for information on the features and operation of your printer. For information on other documentation included with your printer, see Finding Information.

To order supplies from Dell:

1. Double-click the icon on your desktop.

2. Visit Dell's website: www.dell.com/supplies
3. Order Dell printer supplies by phone. Refer to the *Owner's Manual* for the correct phone number for your country.

   For the best service, make sure you have the Dell printer Service Tag available. See Express Service Code and Service Tag number.

Notes, Notices, and Cautions

NOTE: A **NOTE** indicates important information that helps you make better use of your printer.

NOTICE: A **NOTICE** indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

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Model 5210n / 5310n

August 2005 Rev. A00

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Clearing Jams

- Identifying Jams
- Clearing Printer Jams

By carefully selecting print media and loading it properly, you should be able to avoid most paper jams. For more information on avoiding paper jams, see Avoiding Jams. If jams do occur, follow the steps outlined in this section.

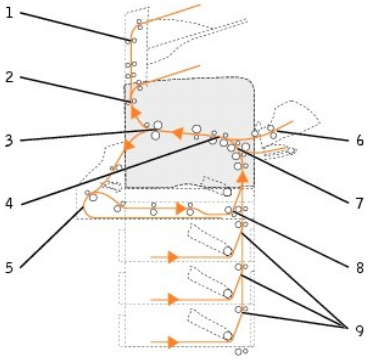
To resolve the paper jam messages, you must clear the entire paper path and then press the **Select** button to clear the message and resume printing. The printer prints a new copy of the page that jammed if **Jam Recovery** is set to **On** or **Auto**; however, the **Auto** setting does not guarantee the page will print.

Identifying Jams

If the printer jams, the appropriate jam message will be displayed on the printer operator panel.

The following illustration shows the path that print media travels through the printer. The path varies depending on the input source (trays, multipurpose feeder, envelope feeder) and output bins (expander) you are using.

The following table lists the jam messages that can occur and the action necessary to clear the message. The jam message indicates the area where the jam occurred. However, it is best to clear the entire paper path to ensure you have cleared all possible jams.



Number	Message	What to do*
1	27x Paper Jam Check Bin x	Open the output bin rear doors, and then remove the jam.
2	202 Paper Jam Open Rear Door	Open the rear door on the printer, and then remove the jam.
3	201 Paper Jam Remove Cartridge	Open the top front cover, remove the print cartridge, and then remove the jam.
4	200 Paper Jam Remove Cartridge	Open the top front cover, remove the print cartridge, and then remove the jam.
5	23x Paper Jam Open Duplex Rear Door	Open the rear duplex door, and then remove the jam.
6	260 Paper Jam Check Env Feeder	Lift the envelope weight, remove all envelopes, flex and stack the envelopes, reload the envelope feeder, and adjust the guide.
7	250 Paper Jam Check MP Feeder	Remove all media from the multipurpose feeder, flex and stack the media, reload the multipurpose feeder, and adjust the guide.
8	23x Paper Jam Check Duplex	Remove the duplex tray from the duplex unit, raise the duplex deflector, and remove the jam. Open the rear duplex door, and remove the jam.
9	24x Paper Jam Check Tray x	Open each tray, and then remove any jammed media.
*** After clearing the jam, press the Select button to resume printing.**		

Clearing Printer Jams

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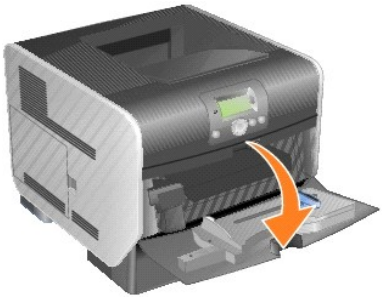
Although there are several places a jam can occur, clearing the paper path is fairly easy depending on the jam message or messages displayed on the operator panel.

Paper jams can occur in three areas: the front of the printer, inside the printer, and at the rear of the printer. Jams in the front of the printer occur in the input options or the duplex tray. Jams inside the printer occur in two locations and require the removal of the print cartridge. Jams can also occur at the rear of the printer or in one of the output options.

NOTE: The following clearing jam instructions may seem out of numerical sequence. However, they have been grouped to help you quickly clear the print path. To go to a specific jam, see Identifying Jams.

200 and 201 Paper Jam Remove Cartridge

1. Pull on the notch on the front of the printer to lower the multipurpose feeder.



2. Push the release latch to the right to open the top front cover.

CAUTION: The inside of the printer may be hot. Allow the printer to cool before touching any internal components.

3. Lift and pull the print cartridge out of the printer.

NOTICE: Do not touch the photoconductor drum on the underside of the cartridge. Use the cartridge handle whenever you are holding the cartridge.

4. Place the print cartridge aside.

NOTE: Do not leave the cartridge exposed to light for extended periods.

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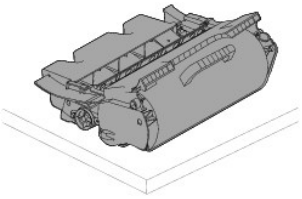


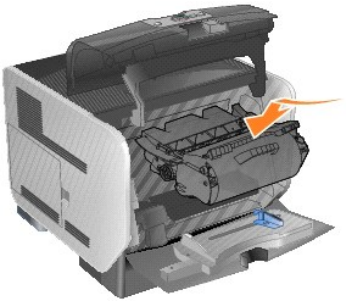
5. Pull the print media up and toward you.

NOTE: The print media may be covered with unfused toner, which can stain garments and skin.

NOTICE: If the print media does not move immediately when you pull, stop pulling. You need to access the print media from the printer rear door.

CAUTION: Do not use any pointed objects to remove the paper. This could cause personal injury or damage to the printer.

6. Align and reinstall the toner cartridge.



7. Close the top front cover.

8. Close the multipurpose feeder.

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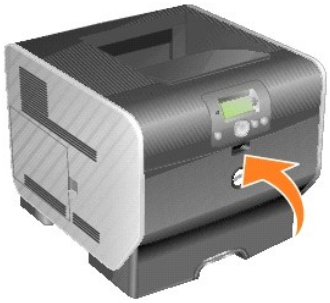

9. Press the **Select** button .

202 Paper Jam Open Rear Door

1. If the paper is exiting the printer, pull the media straight out, and press the **Select** button . Otherwise, continue with step 2.

2. Open the printer rear door.

CAUTION: The inside of the printer may be hot. Allow the printer to cool before touching any internal components.

3. Remove the jammed media.

CAUTION: Do not use any pointed objects to remove the paper. This could cause personal injury or damage to the printer.

4. Close the rear door.
5. Press the **Select** button .

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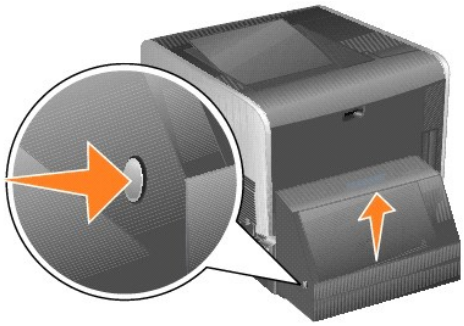
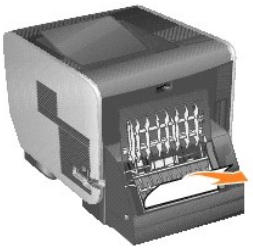
23x Paper Jam Open Duplex Rear Door

1. Open the duplex rear door.

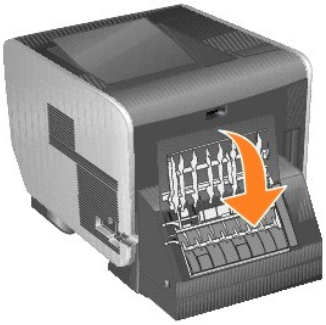


2. Remove the jammed media.

   Depending on the media location, pull the media either up or down.



3. Close the duplex rear door. Make sure it *snaps* into place.



4. Press the **Select** button .

23x and 24x Jams

Paper jams in these areas can occur on the incline surface of a tray or across more than one tray. To clear these areas:

1. Open the printer paper tray, and remove any jammed media.

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2. Open the duplex tray, and remove the media by pulling up.

3. Open any optional trays beginning at the top, and remove any jammed media.

   Pull the print media either up or down. If it does not pull easily one way, try the other way.

4. Press the **Select** button .

250 Paper Jam Check MP Feeder

1. Remove the paper from the multipurpose feeder.

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2. Flex, fan, and restack the media.

3. Load the print media.

4. Slide the side guide toward the inside of the tray until it lightly rests against the edge of the media.

5. Press the **Select** button .

260 Paper Jam Check Env Feeder

The envelope feeder feeds envelopes from the bottom of the stack; the bottom envelope will be the one that is jammed.

1. Lift the envelope weight.

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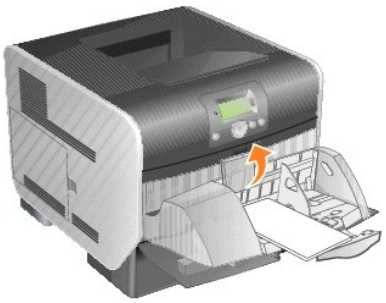
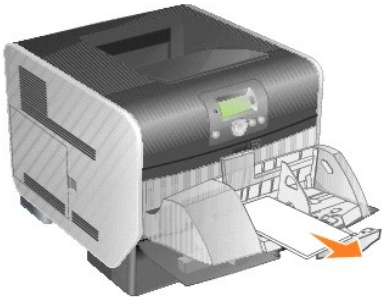


2. Remove all envelopes.



If the jammed envelope has entered the printer and cannot be pulled out, remove the envelope feeder.

a. Lift the envelope feeder up out of the printer, and then set it aside.

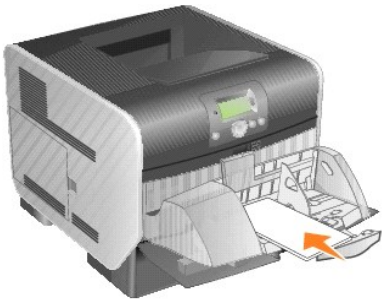
b. Remove the envelope from the printer.

NOTE: If you cannot remove the envelope, the print cartridge will have to be removed. See 200 and 201 Paper Jam Remove Cartridge for more information.

c. Reinstall the envelope feeder. Make sure it *snaps* into place.

3. Flex and stack the envelopes.

4. Load the envelope feeder.



5. Adjust the guide.

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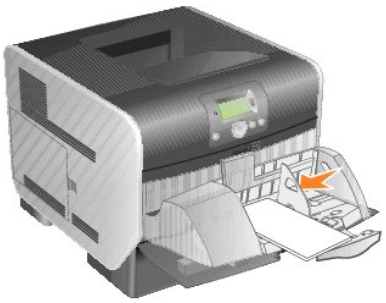
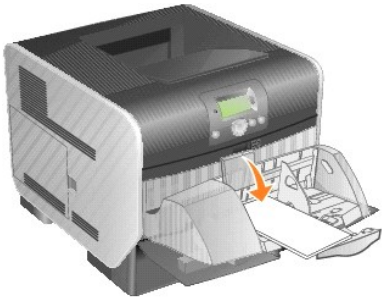


6. Lower the envelope weight.



7. Press the **Select** button .

27x Paper Jam Check Bin x

To clear a jam in the output expander:

1. If the paper is exiting into the bin, pull the media straight out, and press the **Select** button . Otherwise, continue with step 2.

2. Push the output bin rear door latches in toward the center. The rear doors will open and drop down.

NOTE: If you only have one output option, you may only have one rear door.

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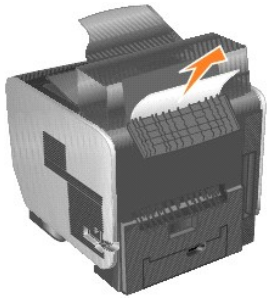
3. Remove the jammed media.



4. Close the output bin rear doors, and make sure all doors are secure.
5. Press the **Select** button .

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Installing Drivers for Local Printing

- Windows
- Macintosh
- Linux/UNIX

A local printer is a printer attached to one computer using a USB or parallel cable. *If your printer is attached to a network instead of your computer, go to* Installing Drivers for Network Printing.

A printer driver is software that lets your computer communicate with your printer.

Use the following table to find the instructions you need for your operating system.

Operating System
Windows
Macintosh
Linux/UNIX

Windows

Some Windows operating systems may already include a printer driver that is compatible with the printer.

NOTE: Installing a custom driver will not replace the system driver. A separate printer object will be created and appear in the Printers folder.

Computer Operating System:	**Use this type of cable:**
Windows XP Professional x64 Windows XP Windows 2003 Server Windows 2000 Windows Me Windows 98 SE	USB or Parallel
Windows NT	Parallel

Installing the Printer Software

NOTE: Windows XP Professional x64, Windows XP Professional, and Windows NT require that you have administrative access to install printer drivers on your computer.

1. Turn on your computer and insert the *Drivers and Utilities* CD. The *Drivers and Utilities* CD should automatically launch. This may take a few seconds.

   If the CD doesn't launch automatically, browse to the CD drive, and double-click **setup.exe**.

2. When the *Drivers and Utilities* CD screen appears, click **Personal Installation - Install the printer for use on this computer only**.
3. Select your printer from the drop-down box.
4. Select **Typical Installation (recommended)**, and then click **Install**.

   When all of the files are installed on your computer, the **Congratulations!** screen appears and prompts you to connect your printer.

5. Click **Finish**, and then connect the printer to the computer using a USB or parallel cable, and turn the printer on.

   Microsoft's Plug-N-Play finishes installing the printer and prompts you when setup is complete.

Installing Additional Printer Drivers

If you wish to install additional printer drivers on your computer, follow these steps.

1. Turn on your computer and insert the *Drivers and Utilities* CD. If the *Drivers and Utilities* CD appears, click **Cancel**.
2. *In Windows XP,* click **Start**→**Control Panel**→**Printers and Other Hardware**→**Printers and Faxes**.

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In all others, click **Start→Settings→Printers**.

3. Double-click **Add Printer**.
4. Click **Next**.
5. Select Local printer attached to this computer, and then click **Next**.
6. Select the port you want your printer to use, and then click **Next**.
7. Select **Have Disk**.
8. Browse to your CD drive and select the correct driver for your operating system.

NOTE: If you installed the printer drivers from the *Drivers and Utilities* CD before you connected the printer to your computer, the PCL driver for your operating system was installed by default.

Operating System	Driver Type	Driver Name
Windows XP Professional x64	PCL	D:\Drivers\Print\x64\dkaatb40.inf
	PS	D:\Drivers\Print\x64\dkaat940.inf
Windows XP Windows 2003 Server Windows 2000	PCL	D:\Drivers\Print\Win_2kXP\dkaat2da.inf
	PS	D:\Drivers\Print\Win_2kXP\dkaat1da.inf
Windows NT	PCL	D:\Drivers\Print\Win_NT.40\dkaat2da.inf
	PS	D:\Drivers\Print\Win_NT.40\dkaat1da.inf
Windows Me Windows 98 SE	PCL	D:\Drivers\Print\Win_9xme\<your language>dkaat2da.inf
	PS	D:\Drivers\Print\Win_9xme\<your language>dkaat1da.inf

9. Click **Open**, and then click **OK**.
10. Select the type of driver you wish to install (PCL or PS) in the **Manufacturer** list, and the printer model in the **Printers** list, and then click **Next**.
11. Proceed through the rest of the **Add Printer Wizard**, and then click **Finish** to install the printer driver.

Macintosh

Mac OS 9.x or later is required for USB printing. To print locally to a USB-attached printer, create a desktop printer icon (Mac OS 9), or create a queue in Print Center/Printer Setup Utility (Mac OS X).

Creating a Queue in Print Center/Printer Setup Utility (Mac OS X)

1. Install a PostScript Printer Description (PPD) file on the computer.
   a. Insert the *Drivers and Utilities* CD.
   b. Double-click the installer package for the printer.

NOTE: A PPD file provides detailed information about the capabilities of a printer to the Macintosh computer.

   c. Click **Continue** on the **Welcome** screen and again after viewing the Readme file.
   d. Click **Continue** after viewing the license agreement, and click **Agree** to accept the terms of the agreement.
   e. Select a **Destination**, and click **Continue**.
   f. On the **Easy Install** screen, click **Install**.
   g. Enter the password, and click **OK**. All the necessary software is installed on the computer.
   h. Click **Close** when installation is complete.
2. Open Finder, click **Applications**, and then click **Utilities**.
3. Double-click **Print Center or Printer Setup Utility**.
4. Do one of the following:
   - If the USB-attached printer appears in the **Printer** list, quit **Print Center** or **Printer Setup Utility**. A queue has been created for the printer.
   - If the USB-attached printer does not appear in the **Printer** list, make sure the USB cable is properly connected and the printer is turned on. After the printer appears in the **Printer** list, quit **Print Center** or **Printer Setup Utility**.

Creating a Desktop Printer Icon (Mac OS 9.x)

1. Install a PostScript Printer Description (PPD) file on the computer.
   a. Insert the *Drivers and Utilities* CD.
   b. Double-click **Classic**, and double-click the installer package for the printer.

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NOTE: A PPD file provides detailed information about the capabilities of a printer to the Macintosh computer.

c. Choose the appropriate language, and click **Continue**.

d. Click **Continue** after viewing the Readme file.

e. Click **Continue** after viewing the license agreement, and click **Agree** to accept the terms of the agreement.

f. On the **Installation Type** screen, click **Install**. All the necessary files are installed on the computer.

g. Click **Close** when installation is complete.

2. Do one of the following:
   - *Mac OS 9.0*: Open **Apple LaserWriter**.
   - *Mac OS 9.1–9.x*: Open **Applications**, and click **Utilities**.
3. Double-click **Desktop Printer Utility**.
4. Select **Printer (USB)**, and click **OK**.
5. In the **USB Printer Selection** section, click **Change**.

   If the printer does not appear in the **USB Printer Selection** list, make sure the USB cable is properly connected, and the printer is turned on.
6. Select the name of the printer, and click **OK**. The printer appears in the original **Printer (USB)** window.
7. In the **PostScript Printer Description (PPD) File** section, click **Auto Setup**. Make sure the printer PPD matches the printer.
8. Click **Create**, and click **Save**.
9. Specify a printer name, and click **Save**. The printer is now saved as a desktop printer.

Linux/UNIX

Local printing is supported on many Linux and UNIX platforms, such as Sun Solaris and Red Hat.

Printer driver packages are available on the *Drivers and Utilities* CD. All the printer driver packages support local printing using a parallel connection. The driver package for Sun Solaris supports USB connections to Sun Ray appliances and Sun workstations.

Before Installing

Do the following before you install printer drivers:

1. Make sure you are logged on with root user authority.
2. Make sure you have enough disk space available for a complete installation.
3. Set up an administrative user group.

   During the installation of printer drivers, you will be asked if you want to change the administrative user group for printer drivers. The default administrative group is bin.

   If you have an administrative group on your host, you might want to use that group as the printer drivers administrative group. Non-administrative users cannot add or remove printer queues.
4. Decide where to install the printer drivers package.

   The printer drivers package can be installed in various arrangements. You can install printer drivers on:
   - Each workstation you want to run printer drivers.
   - One host, while other workstations can NFS mount the printer drivers package files. For help, see NFS mount printer drivers.

Supported Operating Systems

Make sure you are running one of the following versions of Linux with the latest available patches.

- Debian GNU/Linux
- Linspire Linux
- RedHat Linux

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- SuSE Linux

Linux System Requirements

Printer drivers has minimum Linux installation space requirements of 70MB in /usr/local.

Installing on RedHat Linux or SuSE Linux

1. Read Before Installing.
2. Mount the CD.
3. Change your directory to the package file directory. If you mounted your CD-ROM to /mnt/cdrom:

   ```
   # cd /mnt/cdrom/unix/packages
   ```

4. Install the package file:

   ```
   # rpm -ivh print-drivers-linux-glibc2-x86.rpm
   ```

5. Run the following setup script to complete the installation:

   ```
   # /usr/local/dell/setup.dellprint
   ```

NOTE: Your specific printer driver may not be included in the standard package. Check your printer CD or the Web to determine if there are any driver plugins available.

Installing on Linspire or Debian GNU/Linux

1. Read Before Installing.
2. Mount the CD.
3. Change the directory to the package file directory. If you mounted your CD-ROM to /mnt/cdrom:

   ```
   # cd /mnt/cdrom/unix/packages
   ```

4. Install the package file:

   ```
   # deb -i print-drivers-linux-glibc2-x86.deb
   ```

5. Run the following setup script to complete the installation:

   ```
   # /usr/local/dell/setup.dellprint
   ```

NOTE: Your specific printer driver may not be included in the standard package. Check your printer CD or the Web to determine if there are any driver plugins available.

Installing on Sun Solaris SPARC

1. Set the NONABI_SCRIPTS environment variable to **TRUE**.
2. Install the package file.
   a. Check to see if you are running Volume Manager by typing the following on the command line and then pressing **Enter**:

      ```
      # ps -ef | grep vold
      ```

      If you get a response, the vold process is running, and therefore the Volume Manager is running. The CD automatically mounts. Start the package installation program by typing:

      ```
      # pkgadd -d /cdrom/cdrom0/unix/packages/ print-drivers-solaris2-sparc.pkg
      ```

      If there is not a response, Volume Manager is not running.

      - Make sure that the /cdrom directory exists.
      - Mount the CD. For example, if the path to the CD-ROM drive is /dev/dsk/c0t6d0s2, the command is: `# mount -F hsfs -o ro /dev/dsk/c0t6d0s2 /cdrom`
      - Start the package installation program by typing: `# pkgadd -d /cdrom/unix/packages/print-drivers-solaris2-sparc.pkg`

   b. Continue with the instructions on the screen.
3. A list of available packages appears:

   To install all the packages, type all, and then press **Enter**.

   To install individual packages, type each package number separated by a comma, and then press **Enter**. For example: `1,2,3`.
4. Follow the prompts, and answer any questions that appear on the screen:

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a. To accept the defaults, press **Enter**.

b. To answer yes/no questions, type y, n, or ? , and then press **Enter**.

c. When a message appears telling you the installation was successful, type q to quit.

Removing Print Drivers

A system administrator removes printer drivers using the utilities listed in this table.

Depending on your operating system, you mark the printer drivers packages for removal after you start the program, or you type the names of the printer drivers package names you want to remove on the command line. See your operating system documentation for more information.

Operating system	Package removal tool
RedHat Linux and SuSE Linux	rpm -e
Linspire Linux, and Debian GNU/Linux	dpkg -r

Removing remaining directories

Package removal utilities usually do not remove directories shared by more than one package. After removing all of the printer drivers packages, some directories may need to be removed manually.

To see if any directories remain after removing all the packages, check the directory where you installed printer drivers. By default, printer drivers installs in the following location: /usr/local/dell/unix_prt_drivers.

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Maintaining the Printer

- Moving the Printer
- Maintaining Printer Supplies
- Replacing the Toner Cartridge
- Replacing Maintenance Kit Items

Periodically, you need to complete certain tasks to maintain optimum print quality. These tasks are covered in this chapter.

If several people are using the printer, you may want to designate a key operator to do the setup and maintenance of the printer. Refer printing problems and maintenance tasks to this key operator.

Contact the place where you bought the printer for information about authorized supplies dealers in your area.

Moving the Printer

Follow these guidelines to move the printer within the office or to prepare the printer for shipment.

⚠ **CAUTION: Follow these guidelines to avoid injuring yourself or damaging the printer.**

- Always use at least two people to lift the printer.

- Always turn off the printer using the power switch.
- Disconnect all cords and cables from the printer before attempting to move the printer.
- Failure to repackage the printer properly for shipment can result in damage to the printer not covered by the printer warranty.
- Damage to the printer caused by improper moving is not covered by the printer warranty.

Moving the Printer Within the Office

The printer can be safely moved from one location within an office to another following these precautions:

- The printer must remain in an upright position.
- Any cart used to move the printer should have a surface able to support the full footprint of the printer.
- Severe jarring movements may cause damage to the printer and must be avoided.

Preparing the Printer for Shipment

To transport the printer by vehicle or by commercial carrier, the printer must be repackaged for shipment using the proper packaging. The printer package

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must be securely fastened to its pallet. Do not use a shipping or transport method that requires the printer to be shipped without a pallet. The printer must stay upright throughout the shipment. If you do not have all the original packaging, contact your local service representative to order the repackaging kit. Additional instructions for repackaging the printer are provided in the repackaging kit.

Maintaining Printer Supplies

Ordering Supplies

To order supplies, visit Dell's website: www.dell.com/supplies.

Supply item:	When to order:	For more information, see:
Print cartridge	ı When **88 Toner is low** appears on the operator panel display. ı When you experience faded print.	Replacing the Toner Cartridge
Maintenance kit The maintenance kit contains all the items necessary to replace the charge rolls, transfer roller, pick rollers, and fuser. **NOTE:** Replacement of the fuser must be performed by an authorized service technician.	ı When **80 Scheduled maintenance advised** appears on the operator panel display. ı When toner fog or background shading appears on printed pages. ı After printing approximately 300,000 pages.	Replacing Maintenance Kit Items
Charge rolls	When toner fog or background shading appears on printed pages, or after printing approximately 300,000 pages.	Replacing the Charge Rolls
Transfer roller	When toner fog or background shading appears on printed pages, or after printing approximately 300,000 pages.	Replacing the Transfer Roller
Pick Rollers **NOTE:** When ordering pick rollers, you need one set per input tray excluding the multipurpose feeder.	When the paper fails to properly feed from the tray.	Replacing the Pick Rollers

Storing Supplies

Choose a cool, clean storage area for the printer supplies. Store supplies right side up in their original packaging until you are ready to use them.

Do not expose supplies to:

- Direct sunlight
- Temperatures above 35°C (95°F)
- High humidity (above 80%)
- Salty air
- Corrosive gases
- Heavy dust

Conserving Supplies

Several settings in your application software or on the display let you conserve toner and paper. For more information on changing these settings, see Understanding the Operator Panel Menus.

Supply	Menu Selection Item	What the Setting Does
Toner	**Toner Darkness** in the **Settings→ Quality Menu**	Lets you adjust the level of toner released on a sheet of print media. The values range from 1 (lightest setting) to 10 (darkest setting). **NOTE:** When toner is low, thoroughly shake the cartridge to redistribute any remaining toner. See Replacing the Toner Cartridge for more information.
Print media	**Multipage Print** in the **Settings→ Finishing Menu**	Causes the printer to print two or more page images on one side of a sheet. Values for **Multipage Print** are 2 Up, 3 Up, 4 Up, 6 Up, 9 Up, 12 Up, and 16 Up. Combined with the duplex setting, **Multipage Print** lets you print up to 32 pages on one sheet of paper (16 images on the front and 16 on the back).

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	Duplex in the **Settings→ Finishing Menu**	Duplex printing is available when you install an optional duplex unit. It lets you print on both sides of a sheet of paper.
	Use your software application or printer driver to send a **Verify Print** job.	Lets you examine the first copy of a multiple-copy job to be sure it is satisfactory before you print the other copies. If the job is unsatisfactory, you can cancel the job. See Printing and Deleting Held jobs for more information about a **Verify Print** job.

Replacing the Toner Cartridge

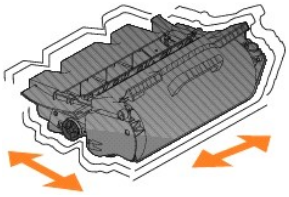
The printer operator panel alerts you when the toner is low. You can still print for a short time while this message is displayed, but print quality begins to decrease as the toner level decreases.

You can also view the toner level in the printer on the operator panel unless the printer is printing or in a busy state.

To view the toner level:

1. Press the **Down** arrow button ▼ until ➡ appears next to **Status/Supplies**, and then press the **Select** button .
2. Press the **Down** arrow button ▼ until ➡ appears next to **View Supplies**, and then press the **Select** button .

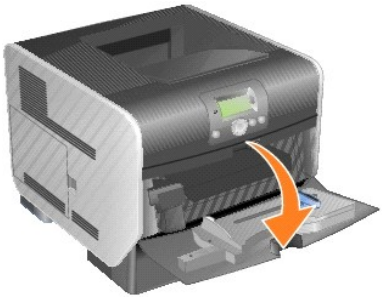
When the **Toner low** message appears or when you experience faded print, remove the toner cartridge. Thoroughly shake it side-to-side and front-to-back several times to redistribute the toner, reinsert it, and continue printing.



Repeat this procedure multiple times until the print remains faded. When the print remains faded, replace the toner cartridge.

To replace the toner cartridge:

1. Pull on the notch on the front of the printer to lower the multipurpose feeder.



2. Push the release latch to the right to open the top front cover.

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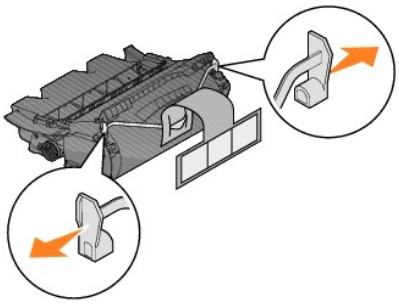
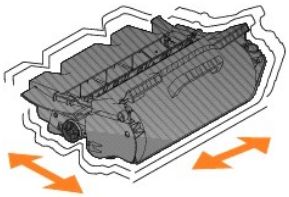
3. Pull the print cartridge up and out of the printer.

CAUTION: When replacing a toner cartridge, do not leave the new cartridge exposed to direct light for an extended period of time. Extended light exposure can cause print quality problems.

4. Unpack the new toner cartridge. Remove and discard the print cartridge's protective foam, red plastic strap, and tape.



5. Thoroughly shake the cartridge side-to-side and front-to-back several times to distribute toner evenly.



6. Insert the print cartridge into the printer.

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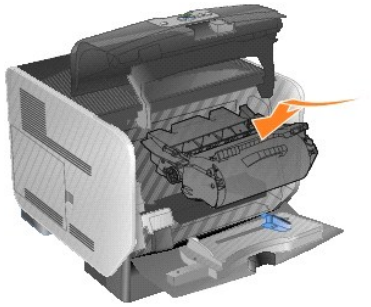
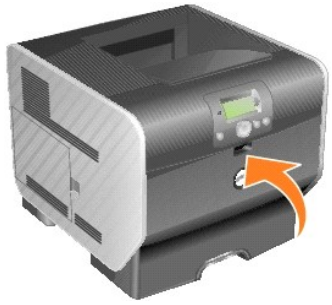


7. Close the top front cover.

8. Close the multipurpose feeder.



Replacing Maintenance Kit Items

Replacing the Charge Rolls

Order a new charge roll kit when toner fog or background shading appears on printed pages.

1. Turn the printer off, and unplug the printer power cord.
2. Pull on the notch on the front of the printer to lower the multipurpose feeder.

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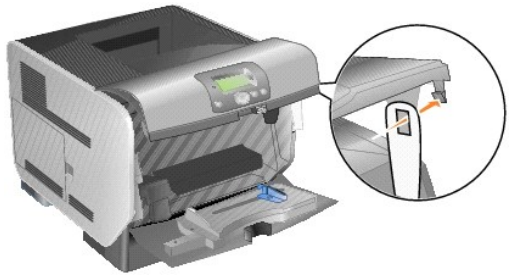
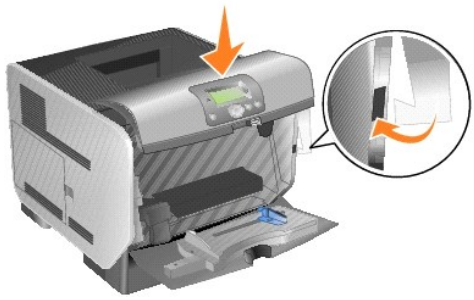
3. Push the release latch to the right to open the top front cover.

4. Pull the print cartridge up and out of the printer.

5. Attach the cardboard cover retainer to the hook on the printer.



6. Insert the hook on the bottom of the cardboard cover retainer into the slot on the printer. You will need to lower the top front cover to do this.



7. Locate the used charge roll above the area for the print cartridge.
8. Pull the charge roll to the left until charge roll drops out of the right side.

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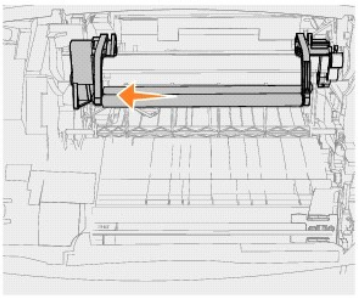
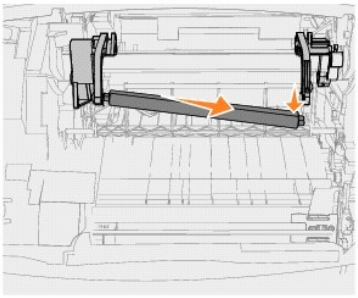
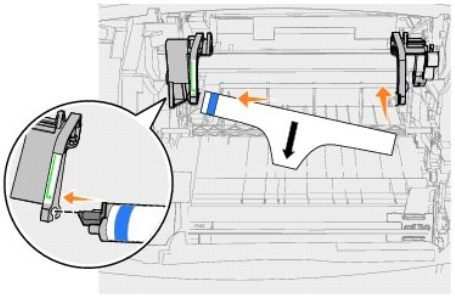


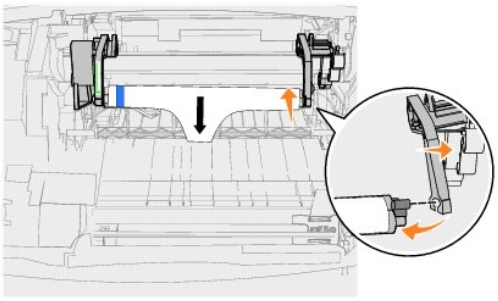
9. Pull the charge roll to the right and out of the printer.



10. Align the blue tab on the left side of the charge roll with its hole in the arm marked with the corresponding blue arrow, and insert it. Pull the charge roll to the left.



11. Lift the right side of the charge roll and insert it into its hole.



12. Remove the packaging from the charge roll.

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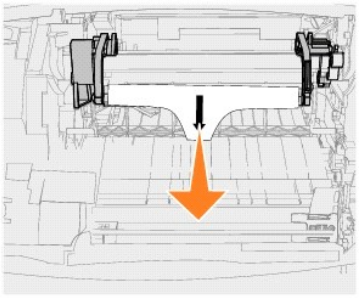
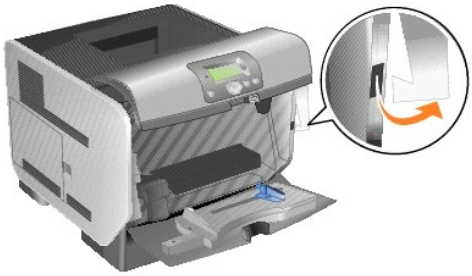
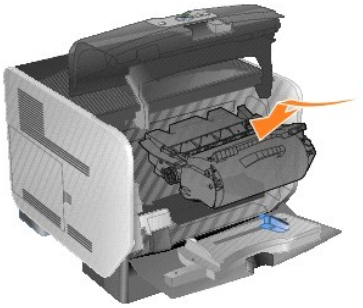


13. Remove the cardboard cover retainer.



14. Reinstall the print cartridge into the printer.



15. Close the top front cover.

16. Close the multipurpose feeder.

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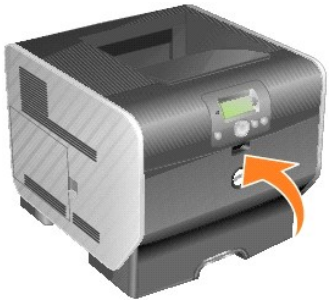
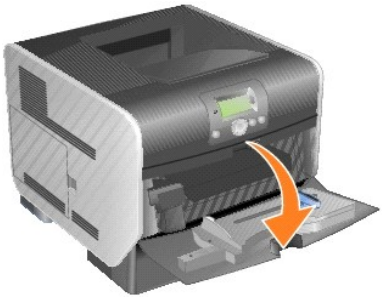


17. Plug the printer power cord into a properly grounded electrical outlet.

Replacing the Transfer Roller

Order a new transfer roller when light print, toner fog, or background shading appears on printed pages.

1. Turn the printer off, and unplug the printer power cord.
2. Pull on the notch on the front of the printer to lower the multipurpose feeder.



3. Push the release latch to the right to open the top front cover.

4. Pull the print cartridge up and out of the printer.

5. Locate the used transfer roller on the bottom of the inside of printer.
6. Pry the left side of the transfer roller up from its slot to loosen it. (Use any kind of small tool.)

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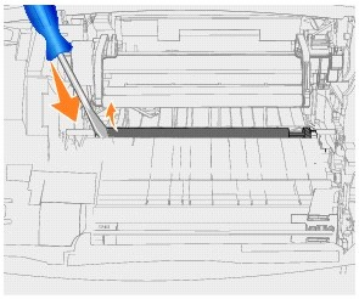
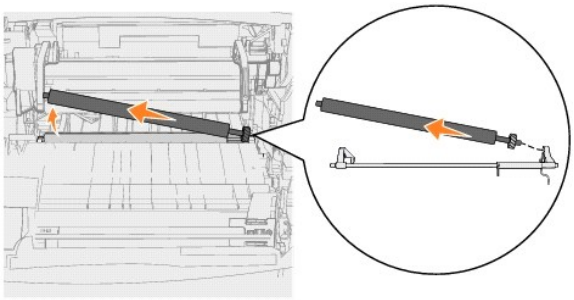
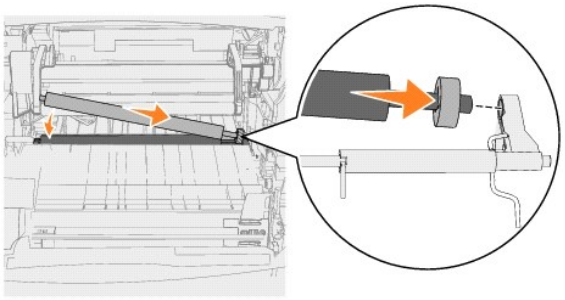


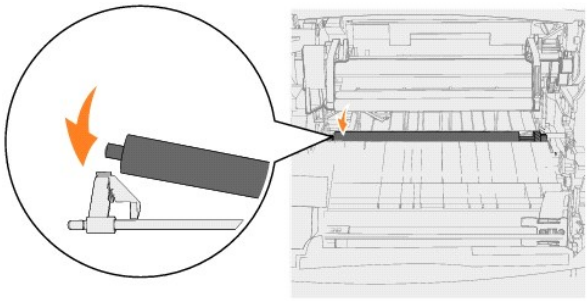
7. Lift the transfer roll and pull it straight out of the printer. Set it aside.



8. Remove any packaging from the new transfer roller.
9. Locate the small hole on the right side of the printer, and insert the metal tab on the right side of the transfer roller into the hole.



10. Lower the transfer roller gently until the left metal tab fits into the slot. You may have to push it down for a secure fit.



11. Reinstall the print cartridge into the printer.

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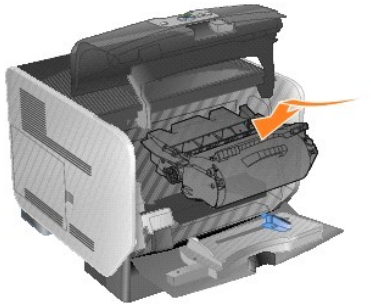
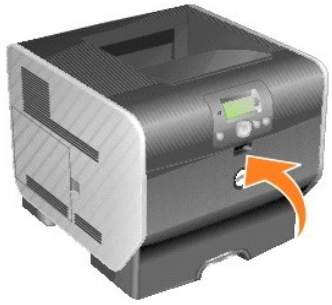


12. Close the top front cover.

13. Close the multipurpose feeder.



14. Plug the printer power cord into a properly grounded electrical outlet.

Replacing the Pick Rollers

1. Remove the standard tray.

2. Look underneath the printer for the pick roller arm and pull it down.

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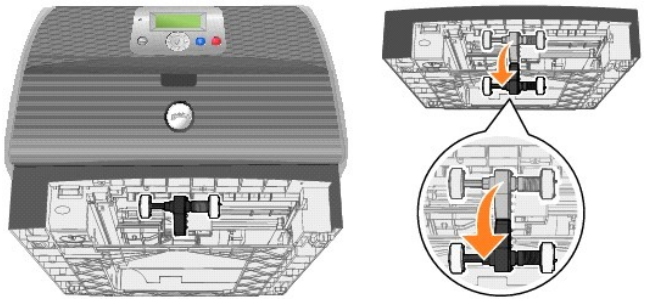
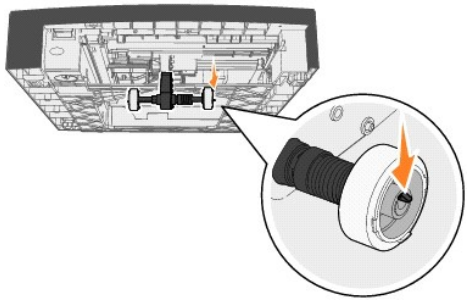
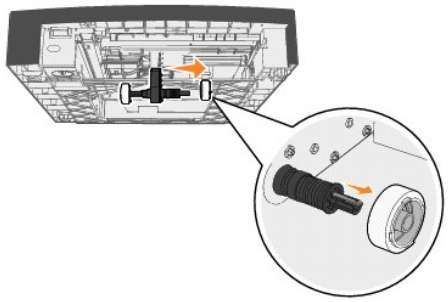


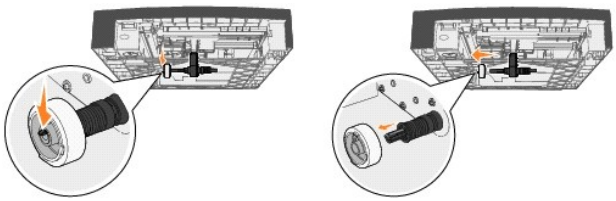
3. Press on the end of the tab.



4. Pull the pick roller off the arm.



5. Repeat step 3 and step 4 on the other side to remove the other pick roller.



6. Gently release the pick roller arm.
7. Discard the used pick rollers.
8. Remove the two pick rollers from the packaging.
9. Pull the pick roller arm down.
10. Locate the recessed area on the pick roller, and align it with the tab on the arm.

NOTE: There are two arrows on each pick roller. Make sure the bottom arrow faces you as you align the recessed area with the tab.

11. Push the pick roller onto the arm with the tab aligned.

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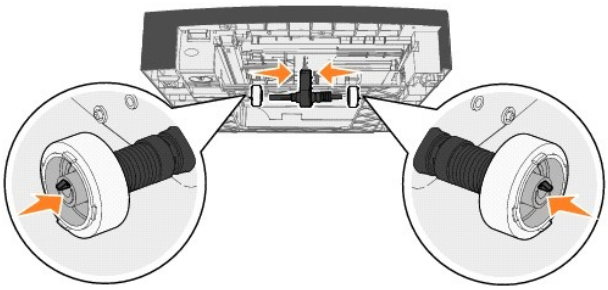
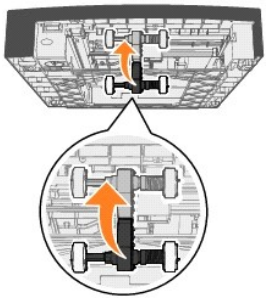


12. Repeat step 10 and step 11 to install the other pick roller.
13. Gently release the pick roller arm.



14. Insert the standard tray.

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Understanding Paper and Specialty Media Guidelines

- Supported Print Media
- Selecting Print Media
- Storing Print Media
- Avoiding Jams

Print media is paper, card stock, transparencies, labels, and envelopes. The printer provides high quality printing on a variety of print media. You must consider a number of things concerning print media before you print. This chapter provides information to help you make print media selections.

We recommend that you try a limited sample of any paper or specialty media you are considering using with the printer before purchasing large quantities.

Supported Print Media

The following tables provide information on standard and optional sources for both input and output trays and bins.

Print Media Types
Print Media Sizes
Print Media Weights

NOTE: If you use a print media size not listed, select the next larger size.

Print Media Types

Input or Output Tray or Bin	Paper	Card Stock	Transparencies	Label (Vinyl, Paper, Polyester, Dual-web, or Integrated)
Standard 500-sheet tray	✓	✓	✓	✓
Standard output bin	✓	✓	✓	✓
Optional 250-sheet drawer	✓	✓	✓	✓
Optional 500-sheet drawer	✓	✓	✓	✓
Optional output expander	✓	✓	✓	✓
Multipurpose feeder	✓	✓	✓	
Optional duplex unit	✓	✓		
Optional envelope feeder				

Print Media Sizes

Input or Output Tray or Bin	Media Size	
Standard 500-sheet tray	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)
	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
	Statement[1]	5.5 x 8.5 in. (140 x 216 mm)
	Universal[2]	5.5 x 8.27 in. to 8.5 x 14 in. (140 x 210 mm to 216 x 356 mm)
		2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)
Standard output bin	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)

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	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
	Statement[1]	5.5 x 8.5 in. (140 x 216 mm)
	Universal[2]	5.5 x 8.27 in. to 8.5 x 14 in. (140 x 210 mm to 216 x 356 mm)
		2.75 x 5 in. to 8.5 x 14 in. (70 x 127 mm to 216 x 356 mm)
		2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)
	7 ¾ Envelope	3.875 x 7.5 in. (98 x 191 mm)
	9 Envelope	3.875 x 7.5 in. (98 x 225 mm)
	10 Envelope	4.12 x 9.5 in. (105 x 241 mm)
	DL Envelope	4.33 x 8.66 in. (110 x 220 mm)
	B5 Envelope	6.93 x 9.84 in. (176 x 250 mm)
	C5 Envelope	6.38 x 9.01 in. (162 x 229 mm)
	Other Envelope[1]	3.87 x 6.38 in. to 6.93 x 9.84 in. (98 x 162 mm to 176 x 250 mm)
		3.87 x 6.38 in. to 9.01 x 12.76 in. (98 x 162 mm to 229 x 342 mm)
Multipurpose feeder	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)
	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
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		2.75 x 5 in. to 8.5 x 14 in. (70 x 127 mm to 216 x 356 mm)
		2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)
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	C5 Envelope	6.38 x 9.01 in. (162 x 229 mm)
	Other Envelope[1]	3.87 x 6.38 in. to 6.93 x 9.84 in. (98 x 162 mm to 176 x 250 mm)
		3.87 x 6.38 in. to 9.01 x 12.76 in. (98 x 162 mm to 229 x 342 mm)
Optional duplex unit	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)
	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
	Universal[2]	2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)
Optional 250-sheet drawer	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)
	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
	Statement[1]	5.5 x 8.5 in. (140 x 216 mm)
	Universal[2]	5.5 x 8.27 in. to 8.5 x 14 in. (140 x 210 mm to 216 x 356 mm)
		2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)

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Optional 500-sheet drawer	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)
	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
	Statement[1]	5.5 x 8.5 in. (140 x 216 mm)
	Universal[2]	5.5 x 8.27 in. to 8.5 x 14 in. (140 x 210 mm to 216 x 356 mm)
		2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)
Optional envelope feeder	7 ¾ Envelope	3.875 x 7.5 in. (98 x 191 mm)
	9 Envelope	3.875 x 7.5 in. (98 x 225 mm)
	10 Envelope	4.12 x 9.5 in. (105 x 241 mm)
	DL Envelope	4.33 x 8.66 in. (110 x 220 mm)
	B5 Envelope	6.93 x 9.84 in. (176 x 250 mm)
	C5 Envelope	6.38 x 9.01 in. (162 x 229 mm)
	Other Envelope[1]	3.87 x 6.38 in. to 6.93 x 9.84 in. (98 x 162 mm to 176 x 250 mm)
		3.87 x 6.38 in. to 9.01 x 12.76 in. (98 x 162 mm to 229 x 342 mm)
Optional output expander	A4	8.27 x 11.7 in. (210 x 297 mm)
	A5	5.83 x 8.27 in. (148 x 210 mm)
	JIS B5	7.17 x 10.1 in. (182 x 257 mm)
	Letter	8.5 x 11 in. (216 x 279 mm)
	Legal	8.5 x 14 in. (216 x 356 mm)
	Executive	7.25 x 10.5 in. (184 x 267 mm)
	Folio[1]	8.5 x 13 in. (216 x 330 mm)
	Statement[1]	5.5 x 8.5 in. (140 x 216 mm)
	Universal[2]	5.5 x 8.27 in. to 8.5 x 14 in. (140 x 210 mm to 216 x 356 mm)
		2.75 x 5 in. to 8.5 x 14 in. (70 x 127 mm to 216 x 356 mm)
		2.75 x 5 in. to 9.01 x 14 in. (70 x 127 mm to 229 x 356 mm)
		5.83 x 7.17 in. to 8.5 x 14 in. (148 x 182 mm to 216 x 356 mm)
	7 ¾ Envelope	3.875 x 7.5 in. (98 x 191 mm)
	9 Envelope	3.875 x 7.5 in. (98 x 225 mm)
	10 Envelope	4.12 x 9.5 in. (105 x 241 mm)
	DL Envelope	4.33 x 8.66 in. (110 x 220 mm)
	B5 Envelope	6.93 x 9.84 in. (176 x 250 mm)
	C5 Envelope	6.38 x 9.01 in. (162 x 229 mm)
	Other Envelope[1]	3.87 x 6.38 in. to 6.93 x 9.84 in. (98 x 162 mm to 176 x 250 mm)
		3.87 x 6.38 in. to 9.01 x 12.76 in. (98 x 162 mm to 229 x 342 mm)

[1] This size does not appear in the Paper Size menu until Tray Size Sensing is turned off.

[2] This size setting formats the page for 8.5 x 14 in. (215.9 x 355.6 mm) unless the size is specified by the software application.

Print Media Weights

Print Media	Type	Print Media Weight			
		Standard Tray Optional 500-Sheet Drawer	Optional 250-Sheet Drawer Multipurpose Feeder	Envelope Feeder	Optional Output Expander
Paper	Xerographic or business paper	60 to 176 g/m2 grain long (16 to 47 lb bond)	60 to 135 g/m2 grain long (16 to 36 lb bond)	N/A	60 to 176 g/m2 (16 to 47 lb bond)
Card stock — maximum (grain long)[1]	Index Bristol	163 g/m2 (90 lb)	120 g/m2 (67 lb)	N/A	163 g/m2 (90 lb)
	Tag	163 g/m2 (100 lb)	120 g/m2 (74 lb)		163 g/m2 (100 lb)
	Cover	176 g/m2 (65 lb)	135 g/m2 (50 lb)		176 g/m2 (65 lb)
Card stock — maximum (grain short)[1]	Index Bristol	199 g/m2 (110 lb)	163 g/m2 (90 lb)	N/A	199 g/m2 (110 lb)
	Tag	203 g/m2 (125 lb)	163 g/m2 (100 lb)		203 g/m2 (125 lb)
	Cover	216 g/m2 (80 lb)	176 g/m2 (65 lb)		216 g/m2 (80 lb)
Transparencies	Laser printer	138 to 146 g/m2	138 to 146 g/m2	N/A	138 to 146 g/m2

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		(37 to 39 lb bond)	(37 to 39 lb bond)		(37 to 39 lb bond)
Labels — maximum	Paper	180 g/m2 (48 lb bond)	163 g/m2 (43 lb bond) **NOTE:** Not supported in the multipurpose feeder.	N/A	180 g/m2 (48 lb bond)
	Dual-web paper	180 g/m2 (48 lb bond)	163 g/m2 (43 lb bond) Not supported in the multipurpose feeder.		180 g/m2 (48 lb bond)
	Polyester	220 g/m2 (59 lb bond)	220 g/m2 (59 lb bond) **NOTE:** Not supported in the multipurpose feeder.		220 g/m2 (59 lb bond)
	Vinyl	300 g/m2 (92 lb liner)	260 g/m2 (78 lb liner) **NOTE:** Not supported in the multipurpose feeder.		300 g/m2 (92 lb liner)
Integrated forms	Pressure-sensitive area (must enter the printer first)	140 to 175 g/m2	140 to 175 g/m2	N/A	140 to 175 g/m2 (up to 47 lb bond)
	Paper base (grain long)	75 to 135 g/m2 (20 to 36 lb bond)	75 to 135 g/m2 (20 to 36 lb bond)		75 to 135 g/m2 (20 to 36 lb bond)
Envelopes 100% cotton content maximum weight — 24 lb	Sulfite, wood-free, or up to 100% cotton bonds	Not recommended	60 to 105 g/m2 (16 to 28 lb bond)2, 3	60 to 105 g/m2 (16 to 28 lb bond)3	60 to 105 g/m2 (16 to 28 lb bond)
[1] Grain short is preferred for papers over 135 g/m^2. [2] Includes envelopes fed from the multipurpose feeder only. [3] 28 lb bond envelopes are limited to 25% cotton content.					

Selecting Print Media

Selecting the appropriate print media for the printer helps you avoid printing problems. The following sections contain guidelines for choosing the correct print media for the printer.

Paper

For the best print quality, use 75 g/m2 (20 lb) xerographic, grain long paper. Try a sample of any paper you are considering using with the printer before buying large quantities.

When loading paper, note the recommended print side on the paper package, and load paper accordingly. See Loading Standard Trays and Optional Trays or Loading the Multipurpose Feeder for detailed tray-loading instructions.

Paper Characteristics

The following paper characteristics affect print quality and reliability. We recommend that you follow these guidelines when evaluating new paper stock.

The laser printing process heats paper to high temperatures of 230°C (446°F). For Magnetic Ink Character Recognition (MICR) applications and for non-MICR applications, use only paper able to withstand these temperatures without discoloring, bleeding, or releasing hazardous emissions. Check with the manufacturer or vendor to determine whether the paper you have chosen is acceptable for laser printers.

Paper Weight

The printer can automatically feed paper weights from 60 to 176 g/m2 (16 to 47 lb bond) grain long in the integrated and optional 500-sheet trays and paper weights from 60 to 135 g/m2 (16 to 36 lb bond) grain long in the multipurpose feeder and optional 250-sheet trays. Paper lighter than 60 g/m2 (16 lb) might not be stiff enough to feed properly, causing jams. For best performance, use 75 g/m2 (20 lb bond) grain long paper. When using paper narrower than 182 x 257 mm (7.2 x 10.1 in.), make sure the weight is greater than or equal to 90 g/m2 (24 lb bond).

Unacceptable paper

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The following papers are not recommended for use with the printer:

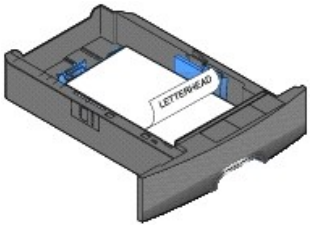
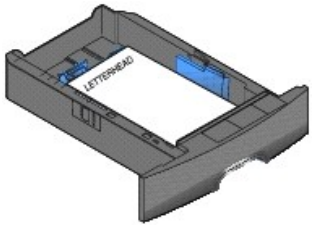
- Some chemically treated papers used to make copies without carbon paper, also known as carbonless papers, carbonless copy paper (CCP), or no carbon required (NCR) paper
- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a *registration* (the precise print location on the page) greater than ±0.09 in., such as optical character recognition (OCR) forms

  In some cases, you can adjust registration with your software application to successfully print on these forms.
- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough-edged, rough or heavily textured surface papers or curled papers
- Recycled papers containing more than 25% post-consumer waste that do not meet DIN 19 309
- Recycled paper having a weight less than 60 g/m2 (16 lb)
- Multiple-part forms or documents

Letterhead

For the best print quality, use 75 g/m2 (20 lb) xerographic, grain long paper. Try a sample of any paper you are considering using with the printer before buying large quantities.

When loading letterhead, note the recommended print side on the paper package, and load paper accordingly.

	Simplex (single-sided) printing	**Duplex (double-sided) printing**
In the paper tray		
In the multipurpose feeder		

Paper Characteristics

The following paper characteristics affect print quality and reliability. We recommend that you follow these guidelines when evaluating new paper stock.

The laser printing process heats paper to high temperatures of 230°C (446°F). For Magnetic Ink Character Recognition (MICR) applications and for non-MICR applications, use only letterhead able to withstand these temperatures without discoloring, bleeding, or releasing hazardous emissions. Check with the manufacturer or vendor to determine whether the paper you have chosen is acceptable for laser printers.

Paper Weight

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The printer can automatically feed paper weights from 60 to 176 g/m2 (16 to 47 lb bond) grain long in the integrated and optional 500-sheet trays and paper weights from 60 to 135 g/m2 (16 to 36 lb bond) grain long in the multipurpose feeder and optional 250-sheet trays. Paper lighter than 60 g/m2 (16 lb) might not be stiff enough to feed properly, causing jams. For best performance, use 75 g/m2 (20 lb bond) grain long paper. When using paper narrower than 182 x 257 mm (7.2 x 10.1 in.), make sure the weight is greater than or equal to 90 g/m2 (24 lb bond).

Unacceptable paper

The following papers are not recommended for use with the printer:

- Preprinted papers with chemicals that may contaminate the printer
- Preprinted papers that can be affected by the temperature in the printer fuser
- Preprinted papers that require a *registration* (the precise print location on the page) greater than ±0.09 in., such as optical character recognition (OCR) forms

  In some cases, you can adjust registration with your software application to successfully print on these forms.
- Coated papers (erasable bond), synthetic papers, thermal papers
- Rough-edged, rough or heavily textured surface papers or curled papers
- Recycled papers containing more than 25% post-consumer waste that do not meet DIN 19 309
- Recycled paper having a weight less than 60 g/m2 (16 lb)

Transparencies

You can feed transparencies from the standard tray, optional 250- or 500-sheet trays, or the multipurpose feeder. Try a sample of any transparencies you are considering using with the printer before buying large quantities.

When printing on transparencies:

- Be sure to set the **Paper Type** to **Transparency** from the printer driver to avoid damaging the printer.
- In Macintosh, be sure to set the **Paper Type** to **Transparency** in the **Print** dialog on the **Imaging choice** in the **Copies & Pages** pop-up menu.
- Use transparencies designed specifically for laser printers. Transparencies must be able to withstand temperatures of 230°C (446°F) without melting, discoloring, offsetting, or releasing hazardous emissions.
- To prevent print quality problems, avoid getting fingerprints on the transparencies.
- Before loading transparencies, fan the stack to prevent sheets from sticking together.

Selecting transparencies

The printer can print directly on transparencies designed for use in laser printers. Print quality and durability depend on the transparency used. Always print samples on the transparencies you are considering before buying large quantities.

The **Paper Type** setting should be set to **Transparency** to help prevent jams. Check with the manufacturer or vendor to determine whether your transparencies are compatible with laser printers that heat transparencies to 230°C (446°F). Use only transparencies that are able to withstand these temperatures without melting, discoloring, offsetting, or releasing hazardous emissions.

Transparencies can be fed automatically from the multipurpose feeder and all standard and optional trays. See Identifying and Linking Output Bins for information about transparency compatibility with optional output bins.

Be careful when you handle transparencies. Fingerprints on the surface of the transparency cause poor print quality.

Envelopes

You can load up to 10 envelopes in the multipurpose feeder and 85 envelopes in the envelope feeder. Try a sample of any envelopes you are considering

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using with the printer before buying large quantities. See Loading the Multipurpose Feeder and Loading the Envelope Feeder for instructions on loading envelopes.

NOTE: When using the envelope feeder, you may hear a "thumping" noise. This noise is normal; it occurs when trapped air is forced out of the envelopes before printing.

When printing on envelopes:

- To achieve the best possible print quality, use only high-quality envelopes that are designed for use in laser printers.
- Set the **Paper Size / Type** in the **Paper menu** to **MP Feeder**, **Manual Env**, or **Env Feeder** depending on the source you are using. Set the paper type to **Envelope**, and select the correct envelope size from the operator panel, the printer driver, or the Local Printer Setup Utility.
- For best performance, use envelopes made from 75 g/m2 (20 lb bond) paper. You can use up to 105 g/m2 (28 lb bond) weight for the multipurpose feeder or 105 g/m2 (28 lb bond) weight for the envelope feeder as long as the cotton content is 25% or less. Envelopes with 100% cotton content must not exceed 90 g/m2 (24 lb bond) weight.
- Use only new, undamaged envelopes.
- For best performance and to minimize jams, do not use envelopes that:
  - Have excessive curl or twist.
  - Are stuck together or damaged in any way.
  - Contain windows, holes, perforations, cutouts or embossing.
  - Use metal clasps, string ties, or metal folding bars.
  - Have an interlocking design.
  - Have postage stamps attached.
  - Have any exposed adhesive when the flap is in the sealed or closed position.
  - Have nicked edges or bent corners.
  - Have rough, cockle, or laid finishes.
- Use envelopes that can withstand temperatures of 230°C (446°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions. If you have any doubts about the envelopes you are considering using, check with the envelope supplier.
- Load only one size of envelope at a time in the envelope feeder.
- A combination of high humidity (over 60%) and the high printing temperatures may seal the envelopes.

Labels

The printer can print on many labels designed for use with laser printers. These labels are supplied in letter size, A4 size, and legal size sheets. Label adhesives, face sheet (printable stock), and topcoats must be able to withstand temperatures of 230°C (446°F) and pressure of 25 pounds per square inch (psi).

Try a sample of any labels you are considering using with the printer before purchasing a large quantity.

After printing approximately 10,000 pages of labels (or each time you replace the print cartridge), complete the following steps to maintain printer feeding reliability:

1. Print five sheets of paper.
2. Wait approximately five seconds.
3. Print five more sheets of paper.

When printing on labels:

- Set the **Paper Size / Type** menu item to **Labels** in the **Paper** menu. You can set the **Paper Size / Type** from the printer operator panel, the printer driver, or the Local Printer Setup Utility.
- Feed vinyl labels from the standard tray or the optional 250- or 500-sheet drawers. For vinyl labels, set the **Paper Type** to **Labels**, the **Labels Texture** to **Smooth**, and the **Label Weight** to **Heavy**, or set the **Paper Type** to vinyl labels and the texture and weight to **Normal**.
- Do not load labels with paper or transparencies in the same source; mixing print media can cause feeding problems and print quality problems.

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- Do not use label sheets with a slick backing material.
- Use full label sheets. Partial sheets may cause labels to peel off during printing, resulting in a jam. Partial sheets also contaminate the printer and your cartridge with adhesive, and could void the printer and cartridge warranties.
- Use labels that can withstand temperatures of 230°C (446°F) without sealing, excessive curling, wrinkling, or releasing hazardous emissions.
- Do not print within 1 mm (0.04 in.) of the edge of the label, of the perforations, or between die-cuts of the label.
- Do not use label sheets that have adhesive to the edge of the sheet. Dell recommends zone coating of the adhesive at least 1 mm (0.04 in.) away from edges. Adhesive material contaminates the printer and could void the warranty.
- If zone coating of the adhesive is not possible, a 1.6 mm (0.1 in.) strip should be removed on the leading and driver edge, and a non-oozing adhesive should be used.
- Remove a 1.6 mm (0.1 in.) strip from the leading edge to prevent labels from peeling inside the printer.
- Portrait orientation is preferred, especially when printing bar codes.
- Do not use labels that have exposed adhesive.

Card Stock

Card stock is single ply, and has a large array of properties, such as the moisture content, thickness, and texture, that can significantly affect print quality. See Supported Print Media for information on the preferred weight and for the grain direction of print media.

Try a sample of any card stock you are considering using with the printer before purchasing a large quantity.

After printing approximately 10,000 pages of card stock (or each time you replace the print cartridge), complete the following steps to maintain printer feeding reliability:

1. Print five sheets of paper.
2. Wait approximately five seconds.
3. Print five more sheets of paper.

When printing on card stock:

- Set the **Paper Type** menu item in the **Paper** menu to **Card Stock** from the operator panel, from the printer driver, or in the Local Printer Setup Utility.
- Be aware that preprinting, perforation, and creasing can significantly affect the print quality and cause print media handling or jamming problems.
- Avoid using card stock that may release hazardous emissions when heated.
- Do not use preprinted card stock manufactured with chemicals that may contaminate the printer. Preprinting introduces semi-liquid and volatile components into the printer.
- We recommend the use of grain short card stock.

Storing Print Media

Use the following guidelines to avoid paper feeding problems and uneven print quality.

- Store paper in an environment where the temperature is approximately 21°C (70°F) and the relative humidity is 40%.
- Store cartons of paper on a pallet or shelf rather than directly on the floor.
- If you store individual packages of paper out of the original carton, make sure they rest on a flat surface so the edges do not buckle or curl.
- Do not place anything on top of paper packages.
- Store paper in its original wrapper until you load it into the printer.

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Avoiding Jams

Use appropriate print media (paper, transparencies, labels, and card stock) to help ensure trouble-free printing. See Supported Print Media for more information.

NOTE: Try a limited sample of any print media you are considering using with the printer before purchasing large quantities.

By selecting the appropriate print media and loading it properly, you can avoid most jams. See Loading Standard Trays and Optional Trays or Loading the Multipurpose Feeder for detailed tray-loading instructions.

The following hints can help you avoid jams:

- Use only recommended print media.
- Do not overload the print media sources. Make sure the stack height does not exceed the maximum height indicated by the stack line on the labels in the sources.
- Do not load wrinkled, creased, damp, or curled print media.
- Flex, fan, and straighten print media before you load it. If jams do occur with print media, try feeding one sheet at a time through the multipurpose feeder.
- Do not use print media that you have cut or trimmed yourself.
- Do not mix print media sizes, weights, or types in the same print media source.
- Make sure the recommended print side is loaded in the source according to your simplex or duplex needs.
- Keep print media stored in an acceptable environment. See Storing Print Media.
- Do not remove trays during a print job.
- Push all trays in firmly after loading them.
- Make sure the guides in the trays are properly positioned for the size of print media you have loaded. Make sure the guides are not placed too tightly against the stack of print media.
- If a jam occurs, clear the entire media path. See Clearing Jams for more information.

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Understanding the Operator Panel Menus

- Paper Menu
- Reports
- Settings
- Security
- Network/Ports

A number of menus are available to make it easy for you to change printer settings. The diagram shows the menu index on the operator panel, the menus, and items available under each menu. The items in each menu and the values you can select are described in more detail later in this chapter.

Some menu items or values are displayed only if a specific option is installed on the printer. Other menu items may only be effective for a particular printer language. You can select these values at any time, but they only affect printer function when you have the optional equipment or the specified printer language.

NOTE: An asterisk (*) next to a value indicates the default setting.

Paper Menu

Use the **Paper Menu** to define the paper loaded in each paper tray, the default paper source, and the output bin.

Default Source

Menu selection:	Purpose:	Values:	
Default Source	Identifies the default paper source.	Tray <x> MP Feeder Env Feeder Manual Paper Manual Env	If you loaded the same size and type of paper in two paper sources (and the **Paper Size** and **Paper Type** menu items are correctly set), the trays are automatically linked. When one paper source is empty, paper automatically feeds from the next linked source.

Paper Size / Type

NOTE: Only installed paper sources are displayed.

This menu selection is used to set the size and type of media loaded into an input tray. Setting the paper size and type is a two-step process. In the first menu selection, *Size* appears in bold letters. After you select the media size, the screen will change, and *Type* appears in bold letters. You can then select the media type.

Menu selection:	Purpose:	Values:	
Tray <x> **Size**/Type	Identifies the default paper size for each paper source. **NOTE:** For trays with automatic size sensing, only the value detected by the hardware appears.	A4* (non-US) A5 JIS B5 Letter* (US) Legal Executive Folio Statement Universal	If you loaded the same size and type of paper in two paper sources (and the **Paper Size** and **Paper Type** menu items are correctly set), the trays are automatically linked. When one paper source is empty, paper automatically feeds from the next linked source.
Tray <x> Size/**Type**	Identifies the type of paper installed in each paper source. **NOTE:** If a user-defined name is available, it appears instead of **Custom Type <x>**. If two or more custom types share the same name, the name only appears once in the **Paper Type** list.	Plain Paper* Card Stock Transparency Glossy Labels Vinyl Labels Bond Letterhead Preprinted Colored Paper Custom Type <x>	Use this menu item to: - Optimize print quality for the specified paper. - Select paper sources through your software application by selecting type and size. Automatically link paper sources. Any sources containing the same type and size of paper are automatically linked by the printer if you have set the **Paper Size** and the **Paper Type** to the correct values.
MP Feeder **Size**/Type	Identifies the size of paper installed in the multipurpose feeder.	A4* (non-US) A5 JIS B5	The multipurpose feeder is only displayed on the operator panel when **Configure MP** is set to **Cassette**.

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		Letter* (US) Legal Executive Folio Statement Universal 7 3/4 Envelope 9 Envelope 10 Envelope DL Envelope C5 Envelope Other Envelope	
MP Feeder Size/**Type**	Identifies the type of paper installed in the multipurpose feeder. **NOTE:** If a user-defined name is available, it appears instead of **Custom Type <x>**. If two or more custom types share the same name, the name only appears once in the **Paper Type** value list.	Plain Paper* Card Stock Transparency Labels Vinyl Labels Bond Envelope Letterhead Preprinted Colored Paper Custom Type <x>	The multipurpose feeder is only displayed on the operator panel when **Configure MP** is set to **Cassette**.
Envelope Feeder **Size**/Type	Identifies the envelope size being loaded.	7 3/4 Envelope 9 Envelope 10 Envelope* (US) DL Envelope* (non-US) C5 Envelope Other Envelope	
Envelope Feeder Size/**Type**	Identifies the envelope type being loaded.	Envelope* Custom Type <x>	
Manual Paper **Size**/Type	Identifies the paper size being manually loaded.	A4* (non-US) A5 JIS B5 Letter* (US) Legal Executive Folio Statement Universal	
Manual Paper Size/**Type**	Identifies the paper type being manually loaded.	Plain Paper* Card Stock Transparency Labels Vinyl Labels Bond Letterhead Preprinted Colored Paper Custom Type <x>	
Manual Envelope **Size**/Type	Identifies the envelope size being manually loaded.	7 3/4 Envelope 9 Envelope 10 Envelope* (US) DL Envelope* (non-US) C5 Envelope Other Envelope	
Manual Envelope Size/**Type**	Identifies the envelope type being manually loaded.	Envelope* Custom Type <x>	

Configure MP

This menu selection is used to configure the multipurpose feeder as another paper tray or manual feeder. If you link the multipurpose feeder with another tray, you can have the printer pull paper from the multipurpose feeder before taking paper from another tray.

Menu selection:	**Purpose:**	**Values:**
Configure MP	Determines when the printer selects paper loaded in the multipurpose feeder.	Cassette* Manual First

Substitute Size

This menu selection is used to determine whether the printer can substitute another size paper if the requested paper size is not currently installed in any of the printer input sources. For example, if **Substitute Size** is set to **Letter/A4**, and only letter size paper is installed in the printer, when a request is received to print on A4 paper, the printer will substitute letter for A4 and print the job instead of displaying a change paper request.

Menu selection:	**Purpose:**	**Values:**

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Substitute Size	Substitutes the specified paper size if the requested size is not loaded.	Off Statement/A5 Letter/A4 All Listed*	ı The **Off** value indicates no size substitutions are allowed. ı The **All Listed** value indicates that all available substitutions are allowed.

Paper Texture

This menu selection is used to set the media texture for each of the defined media types. This allows the printer to optimize the print quality for the specified media.

Menu selection:	Purpose:	Values:	
Plain Texture Transparency Texture Labels Texture Vinyl Labels Texture Envelope Texture Letterhead Texture Preprinted Texture Colored Texture	Identifies the texture of the media loaded in a specific input source.	Smooth Normal* Rough	
Bond Texture		Smooth Normal Rough*	
Card Stock Texture	Identifies the texture of the card stock loaded in a specific input source.	Smooth Normal* Rough	Shown if Card Stock is supported in the specified input source.
Custom <x> Texture	Identifies the texture of the custom media loaded in a specific input source.	Smooth Normal* Rough	Shown if the custom type is supported in the specified input source.

Paper Weight

This menu selection is used to set the paper weight for each of the defined media types. This allows the printer to optimize the print quality for the media weight.

Menu selection:	Purpose:	Values:	
Plain Weight Transparency Weight Labels Weight Vinyl Labels Weight Bond Weight Envelope Weight Letterhead Weight Preprinted Weight Colored Weight	Identifies the relative weight of the paper loaded in a specific source, and ensures the toner adheres properly to the printed page.	Light Normal* Heavy	
Card Stock Weight	Identifies the relative weight of the card stock loaded in a specific source.	Light Normal* Heavy	Shown if Card Stock is supported in the specified input source.
Custom <x> Weight	Identifies the relative weight of the custom paper loaded in a specific source.	Light Normal* Heavy	Shown if the custom type is supported in the specified input source.

Paper Loading

This menu selection is used to set the loading orientation for each paper type. This lets you load an input source with preprinted media, and then notify the printer that the media is loaded for duplex printing. You can then use your application software to indicate simplex printing. When simplex printing is selected, the printer automatically inserts blank pages to print the simplex job correctly.

NOTE: Paper Loading is only available if a duplex unit is installed.

Menu selection:	Purpose:	Values:
Labels Loading	Properly handles preprinted paper whether the job is a duplexed or	Duplex

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Vinyl Labels Loading	single-sided job.	Off*	
Bond Loading			
Letterhead Loading			
Preprinted Loading			
Colored Loading			
Card Stock Loading	Properly handles preprinted card stock whether the job is a duplexed or single-sided job.	Duplex Off*	Shown if Card Stock is supported in the specified input source.
Custom <x> Loading	Properly handles preprinted custom paper whether the job is a duplexed or single-sided job.	Duplex Off*	Shown if the custom type is supported in the specified input source.

Custom Types

This menu selection is used to define a name for each custom paper type. You can assign names from the operator panel.

Menu selection:	Purpose:	Values:	
Custom Type N	Specifies the type of paper associated with each **Custom Type** available in the **Paper Type** menu.	Paper* Card Stock Transparency Labels Vinyl Labels Envelope	The custom type media must be supported in the input source you designate in order to assign a user-defined name. Once the name is assigned, the name (truncated to 16 characters) will be displayed instead of **Custom Type x**.

Universal Setup

This menu selection is used to specify the height and width of the **Universal Paper Size**. By specifying the height and width for **Universal Paper Size**, the printer will use the **Universal** setting exactly like other paper sizes, including support for duplex and n-up.

Menu selection:	Purpose:	Values:	
Units of Measure	Determines the unit of measure used to enter the Universal Height and Width.	Inches Millimeters	**Inches** is US default; **Millimeters** is international default.
Portrait Width	Sets the portrait width of the universal media. **NOTE:** If the value set exceeds the maximum width, the printer will use the maximum value allowed in inches or millimeters.	3 inches to 14.17 inches in 0.01 inch increments (76 mm to 360 mm in 1 mm increments)	Shows either inches or millimeters from **Units of Measure** setting; **8.5 inches** is the US default, and **216 mm** is the international default.
Portrait Height	Sets the portrait height of the universal media. **NOTE:** If the value set exceeds the maximum height, the printer will use the maximum value allowed in inches or millimeters.	3 inches to 14.17 inches in 0.01 inch increments (76 mm to 360 mm in 1 mm increments)	Shows either inches or millimeters from **Units of Measure** setting; **14 inches** is the US default, **356 mm** is the international default.
Feed Direction	Specifies the feed direction of the **Universal Paper Size**.	Short Edge* Long Edge	**Long Edge** is only shown if the longest edge is shorter than the **Maximum Physical Width** of the printer.

Bin Setup

This menu selection is used to specify the output bin where you want your printed material to go to.

NOTE: Bin Setup is only displayed when at least one optional output bin is installed.

Menu selection:	Purpose:	Values:	
Output Bin	Specifies the default bin for printed material.	Standard Bin* Bin <x>	• If a user-defined name is available, it appears instead of **Bin <x>**. • The name is truncated to 14 characters. • If two or more bins share the same name, the name only appears once in the **Output Bin** value list.
Configure Bins	Determines which output bin(s) the printer uses for a particular job.	Mailbox	Sends print jobs to the output bin designated for that user.
		Link*	Links two or more bins together as though they were one large bin. When one linked bin is full, the printer starts filling the next linked bin, and continues with each additional linked bin.
		Mail Overflow	Sends print jobs to the output bin designated for that

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			user until it is full, and then sends jobs to the designated overflow bin.
		Link Optional	Links all optional output bins as though they were one large bin, while leaving the standard bin individually addressable.
		Type Assignment	Sends each job to the output bin specified for that paper type.
Assign Type/Bin	Sends print jobs to a specific output bin based on the requested paper type. **NOTE:** If a user-defined name is available, it appears instead of **Custom <x> Bin**. The name is truncated to 14 characters. If two or more bins share the same name, the name only appears once in the **Assign Type/Bin** value list.	Plain Paper Bin	Disabled* Standard Bin Bin 1 Bin 2 Bin 3 **NOTE:** Only installed output bins will be displayed. The default is the **Standard Bin** if **Configure Bins** is set to **Type Assignment**.
		Card Stock Bin	
		Transparency Bin	
		Labels Bin	
		Vinyl Labels Bin	
		Bond Bin	
		Envelope Bin	
		Letterhead Bin	
		Preprinted Bin	
		Colored Bin	
		Custom <x> Bin (<x> represents 1 through 3)	
Overflow Bin	Sends print jobs to a specific output bin based on the requested paper type.	Standard Bin* Bin 1 Bin 2 Bin 3	**NOTE:** Only installed output bins will be displayed. If multiple output bins are assigned the same name, the name only appears once in the **Output Bin** value list.

Reports

Menu Settings Page

This menu selection prints a menu settings page.

Menu selection:	Purpose:	Values:
Menu Settings Page	Prints information relating to the default printer settings and verifies that printer options are installed correctly.	After selecting this item, the page will print and the printer will return to **Ready**.

Device Statistics

This menu selection displays the printer statistics.

Menu selection:	Purpose:	Values:
Device Statistics	Prints information relating to the printer statistics.	After selecting this item, the page will print and the printer will return to **Ready**.

Network Setup Page

This menu selection prints a network setup page.

Menu selection:	Purpose:	Values:
Network Setup Page **Network <x> Setup Page** will appear if additional network options are installed.	Prints information relating to network settings and verifies the network connection. **NOTE:** This page also provides information that helps you configure for network printing.	After selecting this item, the page will print, and the printer will return to **Ready**.

NetWare Setup Page

This menu selection prints information relating to the internal print server.

Menu selection:	Purpose:	Values:
NetWare Setup Page	Prints information relating to the internal print server and the network settings defined by the **Network <x> Setup** menu item in the **Network Menu**.	After selecting this item, the page will print, and the printer will return to **Ready**.

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Print Fonts

This menu selection prints a list of the fonts stored in the printer.

Menu selection:	Purpose:	Values:	
Print Fonts	Prints a sample of all the fonts available for the selected printer language.	PCL Fonts	Prints a sample of all printer fonts available for PCL emulation.
		PS Fonts	Prints a sample of all printer fonts available for PostScript emulation.

Settings

Setup Menu

Use this menu selection to configure a variety of printer features.

Menu selection:	Purpose:	Values:	
Display Language	Determines the language of the text displayed on the operator panel.	English Français Deutsch Italiano Español Dansk Norsk Nederlands Svenska Português Suomi Russian Polski Hungarian Turkish Czech Simplified Chinese Traditional Chinese Korean Japanese	**NOTE:** All values may not be available.
Power Saver	Specifies the amount of time (in minutes) the printer waits after a job is printed before it goes into a reduced power state.	Disabled	This value does not appear unless **Energy Conserve** is set to **Off**.
		1...240	Specifies the amount of time after a print job before the printer goes into **Power Saver** mode. (Your printer may not support the entire range of values.) The factory default **Power Saver** setting depends on your printer model. Print the menu settings page to determine the current **Power Saver** setting. When the printer is in **Power Saver** mode, it is still ready to receive print jobs. Select **1** to put the printer in **Power Saver** mode one minute after it finishes a print job. This uses much less energy, but requires more warm-up time for the printer. Select **1** if your printer shares an electrical circuit with room lighting and you notice lights flickering. Select a high value if your printer is in constant use. Under most circumstances, this keeps the printer ready to print with minimum warm-up time. Select a value between **1** and **240** minutes if you want a balance between energy consumption and a shorter warm-up period.
Alarms	Controls whether the printer sounds an alarm when the printer requires operator intervention.	**Alarm Control:** Off Single* Continuous	**Off** — Printer does not sound an alarm. **Single*** — Printer sounds three quick beeps. **Continuous** — Printer repeats three beeps every 10 seconds.
		Toner Alarm: Off* Single Continuous	
Timeouts	Specifies the amount of time (in seconds) the printer waits to return to the home screen, receive an end-of-job message, or receive additional bytes of data from the computer. **NOTE:** **Wait Timeout** is only available when you use PostScript emulation. This menu value has no effect on PCL emulation print jobs.	**Screen Timeout:** 15–300 (30*)	**Disabled** — Disables Screen Timeout. **15–300** — Specifies the amount of time the printer waits before returning to the home screen. **30*** is the default setting.
		Print Timeout: Disabled 1–255 (90*)	**Disabled** — Disables Print Timeout. **1–255** — Specifies the amount of time the printer waits for an end-of-job message before canceling the remainder of the print job.

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			When the timer expires, any partially formatted page still in the printer is printed, and other input ports are examined to see if data exists. **90*** is the default setting.
		Wait Timeout: Disabled 15...65535 (40*)	**Disabled** — Disables Wait Timeout. **15...65535** — Specifies the amount of time the printer waits for additional data before it cancels the job. **40*** is the default setting.
		Network Job Timeout: 1–255 (90*)	**1–255** — Specifies the amount of time the printer waits for a network job before it cancels the job.
Print Recovery	Specifies whether the printer continues from certain offline situations, reprints jammed pages, or waits until the entire page is processed and ready to be printed.	**Auto Continue:** Disabled* 5–255	Lets the printer automatically continue from certain offline situations when not resolved within the specified time period. **5–255** — Specifies the amount of time (in seconds) the printer waits.
		Jam Recovery: On Off Auto*	Specifies whether the printer reprints jammed pages. **On** — Printer reprints jammed pages. **Off** — Printer does not reprint jammed pages. **Auto*** — Printer reprints a jammed page unless the memory required to hold the page is needed for other printer tasks.
		Page Protect: Off* On	Successfully prints a page that may otherwise generate **Complex Page** errors. **Off*** — Prints a partial page of data if memory is insufficient to process the entire page. **On** — Ensures that an entire page is processed before it prints. **NOTE:** If, after selecting **On**, you still cannot print the page, you may also have to reduce the size and number of fonts on the page, or increase the installed printer memory. **NOTE:** For most print jobs, you do not need to select **On**. When **On** is selected, printing may be slower.
Printer Language	Specifies the default printer language used to communicate data from the computer to the printer. **NOTE:** Setting a printer language as the default does not prevent a software application from sending print jobs that use the other language.	PCL Emulation*	Uses a PCL interpreter for incoming host communications.
		PS Emulation	Uses a PS interpreter for incoming host communications.
Print Area	Modifies the logical and physical printable area.	Normal* Fit to Page Whole Page	**NOTE:** The **Whole Page** setting only affects pages printed using PCL 5 interpreter. This setting has no effect on pages printed using the PCL XL or PostScript interpreters. If you try to print any data in the non-printable area defined by **Normal Print Area**, the printer will clip the image at the boundary defined by the **Normal** defined printable area.
Resource Save	Specifies what the printer does with downloaded resources, such as fonts and macros stored in RAM, if the printer receives a job that requires more memory than is available.	Off*	Printer retains downloaded resources only until memory is needed. It then deletes those resources associated with the inactive printer language.
		On	Printer retains all downloaded resources for all printer languages during language changes and printer resets. If the printer runs out of memory, **38 Memory Full** appears.
Factory Defaults	Returns printer settings to the factory default values.	Restore Now	▪ All menu items are returned to the factory default values except: ○ Display Language. ○ All settings in the Parallel Menu, Serial Menu, Network Menu, and USB Menu. ▪ All downloaded resources (fonts, macros, and symbol sets) in printer memory (RAM) are deleted. (Resources residing in flash memory or on the hard disk are unaffected.)
		Do Not Restore*	User-defined settings remain.

Finishing Menu

Use this menu selection to define how the printer delivers the printed output.

Menu selection:	Purpose:	Values:	
Duplex	Sets duplexing as the default for all print jobs. **NOTE:** You must have an optional duplex unit installed. **NOTE:** Select **Duplex** from the printer driver to duplex only specific jobs.	Off*	Prints on one side of the paper.
		On	Prints on both sides of the paper.
Duplex	Defines the way duplexed pages would be bound, and	Long	Assumes binding along the long edge of the page (left edge for portrait

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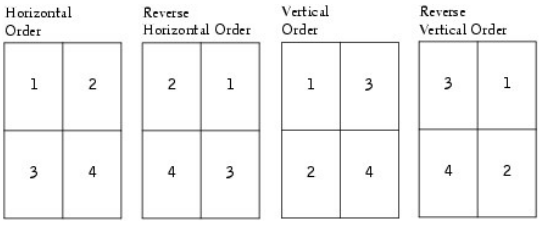
Bind	how the printing on the back of the sheet (even-numbered pages) is oriented in relation to the printing on the front (odd-numbered pages). **NOTE:** You must have an optional duplex unit installed.	Edge*	orientation and top edge for landscape orientation).
		Short Edge	Assumes binding along the short edge of the page (top edge for portrait orientation and left edge for landscape orientation).
Copies	Sets the number of copies you want for the printer default value. **NOTE:** Set the number of copies required for a specific job from the printer driver.	1...999 (1*)	Values selected from the printer driver always override values selected from the operator panel.
Blank Pages	Specifies whether to include application-generated blank pages as part of your printed output.	Do Not Print*	Does not print application-generated blank pages as part of your job.
		Print	Prints application-generated blank pages as part of your job.
Collation	Keeps the pages of a print job stacked in sequence when printing multiple copies of the job.	Off*	Prints each page of a job the number of times specified by the **Copies** menu item. For example, if you set **Copies** to **2**, and send three pages to print, the printer prints page 1, page 1, page 2, page 2, page 3, page 3.
		On	Prints entire job the number of times specified by the **Copies** menu item. For example, if you set **Copies** to 2, and send three pages to print, the printer prints page 1, page 2, page 3, page 1, page 2, page 3.
Separator Sheets	Inserts blank separator sheets between jobs, between multiple copies of a job, or between each page of a job.	None*	Does not insert separator sheets.
		Between Copies	Inserts a blank sheet between each copy of a job. If **Collation** is **Off**, a blank page is inserted between each set of printed pages (all page 1's, all page 2's, and so on). If **Collation** is **On**, a blank page is inserted between each collated copy of the job.
		Between Jobs	Inserts a blank sheet between jobs.
		Between Pages	Inserts a blank sheet between each page of a job. This is useful if you are printing transparencies or want to insert blank pages in a document for notes.
Separator Source	Specifies the paper source that holds separator sheets.	Tray <x> (Tray 1*)	Selects separator sheets from the specified tray.
		MP Feeder	Selects separator sheets from the multipurpose feeder. **NOTE:** You must also set **Configure MP** to **Cassette**.
		Envelope Feeder	Selects separator sheets from the envelope feeder. **NOTE:** Only displayed when the envelope feeder is installed.
Multipage Print	Prints multiple-page images on one side of a sheet of paper. Also called n-up or Paper Saver.	Off*	Prints 1 page image per side.
		2 Up	Prints 2 page images per side.
		3 Up	Prints 3 page images per side.
		4 Up	Prints 4 page images per side.
		6 Up	Prints 6 page images per side.
		9 Up	Prints 9 page images per side.
		12 Up	Prints 12 page images per side.
		16 Up	Prints 16 page images per side.
Multipage Order	Determines the positioning of multiple page images when using Multipage Print. The positioning depends on the number of images and whether the images are portrait or landscape in orientation.	Horizontal*	
		Vertical	
		Reverse Horizontal	
		Reverse Vertical	
	For example, if you select 4-Up multipage printing and portrait orientation, the results differ depending on the **Multipage Order** value you select:  		
Multipage View	Determines the orientation of a multiple-page sheet.	Auto*	Lets the printer choose between portrait and landscape orientation.
		Long Edge	Sets the long edge of the paper as the top of the page (landscape).
		Short Edge	Sets the short edge of the paper as the top of the page (portrait).
Multipage Border	Prints a border around each page image when using Multipage Print.	None*	Does not print a border around each page image.
		Solid	Prints a solid line border around each page image.

Quality Menu

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Use this menu selection to change settings that affect print quality and save toner.

Menu selection:	Purpose:	Values:	
Print Resolution	To select printed output resolution.	600 dpi* 1200 Image Quality 1200 dpi 2400 Image Quality	
Toner Darkness	Lightens or darkens printed output and conserves toner.	1–10	8* is the default setting. Select a lower number to lighten the printed output or save toner.
Brightness	Adjusts the gray value of printed objects.	-6 – +6	0* is the default setting.
Contrast	Adjusts the contrast of printed objects.	0–5	0* is the default setting.

Utilities Menu

Use this menu selection to change printer settings, remove jobs, set up printer hardware, and troubleshoot printer problems.

Menu selection:	Purpose:	Values:	
Factory Defaults	Returns printer settings to the factory default values.	Do Not Restore*	User-defined settings remain.
		Restore Now	All menu items are returned to the factory default values except: - Display Language. - All settings in the Parallel Menu, Serial Menu, Network Menu, and USB Menu. - Resources residing in flash memory or on the hard disk. **NOTE:** All downloaded resources (fonts, macros, and symbol sets) in printer memory (RAM) are deleted.
Remove Held Jobs	Removes confidential and held jobs from the printer hard disk.	Confidential Held Not Restored All	Selecting a menu value only affects jobs that are resident in the printer. Bookmarks and other types of held jobs are not affected.
Job Acct Stat	Prints a listing of all job statistics stored on the hard disk, or clears all statistics on the disk.	Print	Prints all statistics available for the most recent print jobs.
		Clear	Deletes all accumulated job statistics from the hard disk.
Hex Trace	Helps isolate the source of a print job problem.	Activate	With **Hex Trace** selected, all data sent to the printer is printed in hexadecimal and character representation. Control codes are not executed. **NOTE:** To exit **Hex Trace**, turn the printer off, or reset the printer: 1. Press the **Stop** button . 2. Press the **Down** arrow button until appears next to **Reset printer**, and then press the **Select** button .
Coverage Estimator	Provides an estimate of the percent coverage of black toner on a page. The estimate is printed on a separator page.	Off*	Percent coverage is not printed.
		On	Prints the estimated percentage of toner coverage on the page.

PostScript Menu

Use this menu selection to change printer settings that affect jobs using the PostScript printer language.

Menu selection:	Purpose:	Values:	
Print PS Error	Prints a page defining the PostScript emulation error when an error occurs.	Off*	Discards the print job without printing an error message.
		On	Prints an error message before it discards the job.

PCL Emul Menu

Use this menu selection to change printer settings that affect jobs using the PCL emulation printer language.

Menu selection:	Purpose:	Values:	
Font Source	Determines the set of fonts	Resident*	Displays all fonts resident in printer RAM when the printer ships from the factory.

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	displayed in the Font Name menu item.	Disk	Displays all fonts downloaded to printer RAM.
		Flash	Displays all fonts stored in flash memory.
		Download	Displays all fonts stored on the printer hard disk. **NOTE:** The hard disk is an optional item and is not included in the printer. Contact your local Dell Sales Representative to determine availability.
		All	Displays all fonts available to the printer from all sources.
Font Name	Identifies a specific font from the specified font source.	R0 Courier*	The font name and font ID for all fonts in the selected font source are displayed. The font source abbreviation is R for resident, F for flash, K for disk, and D for download.
Symbol Set	Determines the symbol set for a specified font name.	10U PC-8* (US) (country/region-specific factory default values)	A symbol set is a set of alphabetic and numeric characters, punctuation, and special symbols used when printing with a selected font. Symbol sets support the different requirements for languages or specific applications, such as math symbols for scientific text. Only the symbol sets supported for the selected font name are displayed.
		12U PC-850* (non-US) (country/region-specific factory default values)	
Emulation Settings	Changes the point size for scalable typographic fonts.	**Point Size:** 1.00–1008.00 (12*)	Point size refers to the height of the characters in the font. One point equals approximately 1/72 of an inch. You can select point sizes from 1 to 1008 in increments of 0.25 points. **NOTE:** Point Size is only displayed for typographic fonts.
	Specifies the font pitch for scalable monospaced fonts.	**Pitch:** 0.08–100.00 (10*)	Pitch refers to the number of fixed-space characters in a horizontal inch of type. You can select a pitch from 0.08 to 100 characters per inch (cpi) in increments of 0.01 cpi. For nonscalable monospaced fonts, the pitch is displayed but cannot be changed. **NOTE: Pitch** is only displayed for fixed, or monospaced, fonts.
	Determines how text and graphics are oriented on the page.	**Orientation:** Portrait* Landscape	**Portrait** prints text and graphics parallel to the short edge of the paper. **Landscape** prints text and graphics parallel to the long edge of the paper.
	Determines the number of lines that print on each page.	**Lines per Page:** 1–255 60* (US) 64* (non-US)	The printer sets the amount of space between each line (vertical line spacing) based on the **Lines per Page**, **Paper Size**, and **Orientation** menu items. Select the correct **Paper Size** and **Orientation** before changing **Lines per Page**.
	Sets the width of the logical page for A4 size paper.	**A4 Width:** 198 mm* 203 mm	**NOTE:** The **203 mm** setting makes the logical page wide enough to print eighty 10-pitch characters.
	Specifies whether the printer automatically performs a carriage return after a line feed control command.	**Auto CR after LF:** Off* On	**Off** — Printer does not perform a carriage return after a line feed control command. **On** — Printer performs a carriage return after a line feed control command.
	Specifies whether the printer automatically performs a line feed after a carriage return control command.	Auto LF after CR: Off* On	Off—Printer does not perform a line feed after a carriage return control command. **On**—Printer performs a line feed after a carriage return control command.
Tray Renumber	Configures the printer to work with printer drivers or applications that use different source assignments for the paper trays.	**Assign MP Feeder:** Off* None 0–199	**Off** — Printer uses factory default paper source assignments. **None** — Paper source ignores the **Select Paper Feed** command. **0–199** — Select a numeric value to assign a custom value to a paper source.
		Assign Tray [x]: Off* None 0–199	**Off** — Printer uses factory default paper source assignments. **None** — Paper source ignores the **Select Paper Feed** command. **0–199** — Select a numeric value to assign a custom value to a paper source.
		Assign Env Feeder: Off* None 0–199	**Off** — Printer uses factory default paper source assignments. **None** — Paper source ignores the **Select Paper Feed** command. **0–199** — Select a numeric value to assign a custom value to a paper source.
		Assign Man Paper: Off* None 0–199	**Off** — Printer uses factory default paper source assignments. **None** — Paper source ignores the **Select Paper Feed** command. **0–199** — Select a numeric value to assign a custom value to a paper source.
		Assign Man Env: Off* None 0–199	**Off** — Printer uses factory default paper source assignments. **None** — Paper source ignores the **Select Paper Feed** command. **0–199** — Select a numeric value to assign a custom value to a paper source.
		View Factory Def	Displays the factory default value assigned to each paper source.
		Restore Defaults	Select **Yes** to return all tray assignments to factory default values.

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Security

This menu selection is used to set security levels on individual print jobs requiring a PIN.

Menu selection:	Purpose:	Values:
Job Expiration	Limits the amount of time a confidential job stays in the printer before it is deleted.	Off* 1 hour 4 hours 24 hours 1 week

Network/Ports

TCP/IP

This menu section is use to view and change the Transmission Control Protocol/Internet Protocol settings.

NOTE: This menu is not displayed for non-network models.

Menu selection:	Purpose:	Values:	
TCP/IP	Sets the network option to TCP/IP (Transmission Control Protocol/Internet Protocol)	Activate	On* Off
		View Hostname	View only
		Address	4 field IP address
		Netmask	
		Gateway	
		Enable DHCP	On* Off
		Enable RARP	
		Enable BOOTP	
		AutoIP	
		Enable FTP/TFTP	
		HTTP Server Enabled	
		WINS Server Address	4 field IP address
		DNS Server Address	

Standard Network and Network <x>

Use this menu selection to change printer settings affecting jobs sent to the printer through a network port (either **Standard Network** or **Network <x>**).

Menu selection:	Purpose:	Values:	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the network port requires it, regardless of the default printer language.	On*	Printer examines data on the network interface and selects PCL emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PostScript emulation to process the job if **PS SmartSwitch** is **On**, or uses the default printer language specified in the Setup Menu if **PS SmartSwitch** is **Off**.
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the network port requires it, regardless of the default printer language.	On*	Printer examines data on the network interface connection and selects PostScript emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PCL emulation to process the job if **PCL SmartSwitch** is **On**, or uses the default printer language specified in the Setup Menu if **PCL SmartSwitch** is **Off**.
NPA Mode	Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the **Network Printing Alliance (NPA) Protocol**. **NOTE:** Changing this menu item automatically resets the printer.	Off	Printer does not perform NPA processing.
		Auto*	Printer examines the data to determine the format and then processes it appropriately.
Network Buffer	Configures the size of the network input buffer.	Auto*	Printer automatically calculates the **Network Buffer** size (recommended setting).

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	NOTE: Changing the **Network Buffer** menu item automatically resets the printer.	3K to maximum size allowed (1k increments)	User specifies the **Network Buffer** size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether **Resource Save** is set to **On** or **Off**. To maximize the range for the **Network Buffer** size, disable or reduce the size of the parallel, serial, and USB buffers.
Mac Binary PS	Configures the printer to process Macintosh binary PostScript print jobs.	On	Printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. **NOTE:** This setting often causes Windows print jobs to fail.
		Off	Printer filters PostScript print jobs using standard protocol.
		Auto*	Printer processes print jobs from computers using either Windows or Macintosh operating systems.

Standard USB and USB <x>

Use this menu selection to change printer settings affecting a Universal Serial Bus (USB) port (**USB <x>**).

Menu selection:	**Purpose:**	**Values:**	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the USB port requires it, regardless of the default printer language.	On*	Printer examines the data on the USB port and selects PCL emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PostScript emulation to process the job if **PS SmartSwitch** is **On**, or uses the default printer language specified in the Setup Menu if **PS SmartSwitch** is **Off**.
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the USB port requires it, regardless of the default printer language.	On*	Printer examines data on the USB interface and selects PostScript emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PCL emulation to process the job if **PCL SmartSwitch** is **On**, or uses the default printer language specified in the Setup Menu if **PCL SmartSwitch** is **Off**.
NPA Mode	Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the **Network Printing Alliance (NPA) Protocol**. **NOTE:** Changing this menu item automatically resets the printer.	Off	Printer performs NPA processing. If data is not in NPA format, it is rejected as bad data.
		On	Printer does not perform NPA processing.
		Auto*	Printer examines the data to determine the format, and then processes it appropriately.
USB Buffer	Configures the size of the USB input buffer. **NOTE:** Changing the **USB Buffer** menu item automatically resets the printer.	Disabled	Job buffering is disabled. Any jobs already buffered on the disk are printed before normal processing of incoming jobs resumes.
		Auto*	Printer automatically calculates the **USB Buffer** size (recommended setting).
		3K to maximum size allowed	User specifies the **USB Buffer** size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether **Resource Save** is set to **On** or **Off**. To maximize the range for the **USB Buffer** size, disable or reduce the size of the parallel, serial, and network buffers.
Mac Binary PS	Configures the printer to process Macintosh binary PostScript print jobs.	Off	Printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. **NOTE:** This setting often causes Windows print jobs to fail.
		On	Printer filters PostScript print jobs using standard protocol.
		Auto*	Printer processes print jobs from computers using either Windows or Macintosh operating systems.
ENA Address	Sets the USB port ENA Address.	4 field IP address	Shown only if an ENA is attached through the USB port.
ENA Netmask	Sets the USB port ENA Netmask.		
ENA Gateway	Sets the USB port ENA Gateway.		

Parallel and Parallel <x>

Use this menu selection to change printer settings affecting jobs sent to the printer through a parallel port (either **Std Parallel** or **Parallel <x>**).

Menu selection:	**Purpose:**	**Values:**	
PCL SmartSwitch	Configures the printer so it automatically switches to PCL emulation when a print job received through the parallel port requires it, regardless of the default printer language.	On*	Printer examines data on the parallel interface and selects PCL emulation if the data indicates that is the required printer language.
		Off	Printer does not examine the incoming data. The printer uses PostScript emulation to process the job if **PS SmartSwitch** is **On**, or uses the default printer language specified in the Setup Menu if **PS SmartSwitch** is **Off**.
PS SmartSwitch	Configures the printer so it automatically switches to PostScript emulation when a print job received through the	On*	Printer examines data on the parallel interface and selects PostScript emulation if the data indicates that is the required

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	parallel port requires it, regardless of the default printer language.		printer language.
		Off	Printer does not examine the incoming data. The printer uses PCL emulation to process the job if **PCL SmartSwitch** is **On**, or uses the default printer language specified in the Setup Menu if **PCL SmartSwitch** is **Off**.
NPA Mode	Specifies whether the printer performs the special processing required for bidirectional communication, following the conventions defined in the **Network Printing Alliance (NPA) Protocol**. **NOTE:** Changing this menu item automatically resets the printer.	On	Printer performs NPA processing. If data is not in NPA format, it is rejected as bad data.
		Off	Printer does not perform NPA processing.
		Auto*	Printer examines data, determines the format, and then processes it appropriately.
Parallel Buffer	Configures the size of the parallel input buffer. **NOTE:** Changing this menu item automatically resets the printer.	Disabled	Disables job buffering. Any jobs already buffered on the disk are printed before normal processing of incoming jobs resumes.
		Auto*	Printer automatically calculates the **Parallel Buffer** size (recommended setting).
		3K to maximum size allowed	User specifies the **Parallel Buffer** size. The maximum size depends on the amount of memory in the printer, the size of the other link buffers, and whether **Resource Save** is set to **On** or **Off**. To maximize the range for the **Parallel Buffer** size, disable or reduce the size of the serial and USB buffers.
Advanced Status	Enables bidirectional communication through the parallel port.	Off	Disables parallel port negotiation.
		On*	Enables bidirectional communication through the parallel interface.
Protocol	Specifies the parallel interface protocol.	Standard	May resolve some parallel interface problems.
		Fastbytes*	Provides compatibility with most existing parallel interface implementations (recommended setting).
Honor Init	Determines whether the printer honors hardware initialization requests from the computer. The computer requests initialization by activating the INIT signal on the parallel interface. Many personal computers activate the INIT signal each time the computer is turned on and off.	Off*	Printer does not honor hardware initialization requests from the computer.
		On	Printer honors hardware initialization requests from the computer.
Parallel Mode 2	Determines whether the parallel port data is sampled on the leading or trailing edge of strobe.	On*	Samples parallel port data on the leading edge of strobe.
		Off	Samples parallel port data on the trailing edge of strobe.
Mac Binary PS	Configures the printer to process Macintosh binary PostScript print jobs.	On	Printer processes raw binary PostScript print jobs from computers using the Macintosh operating system. **NOTE:** This setting often causes Windows print jobs to fail.
		Off	Printer filters PostScript print jobs using standard protocol.
		Auto*	Printer processes print jobs from computers using either Windows or Macintosh operating systems.

NetWare

Use this menu selection to view or change the printer **NetWare** settings.

Menu selection:	**Purpose:**	**Values:**	
View Login Name	Displays the assigned NetWare login name.	Selecting **View Login Name** displays the NetWare name on the operator panel.	
View Print Mode	Displays the assigned NetWare print mode.	Selecting **View Print Mode** displays the NetWare print mode on the operator panel.	
View Network Number	Displays the assigned NetWare number.	Selecting **View Network Number** displays the NetWare network number on the operator panel.	
Activate	Activates or deactivates the NetWare feature.	On	Activates the NetWare feature.
		Off	Deactivates the NetWare feature.
Ethernet 802.2	Sets the Ethernet 802.2 value **On** or **Off**.	On* Off	
Ethernet 802.3	Sets the Ethernet 802.3 value **On** or **Off**.	On* Off	
Ethernet Type II	Sets the Ethernet Type II value **On** or **Off**.	On* Off	
Ethernet SNAP	Sets the Ethernet SNAP value **On** or **Off**.	On* Off	
Packet Burst	Sets the Packet Burst value **On** or **Off**.	On Off*	
NSQ/GSQ Mode	Sets the NSQ/GSQ Mode value **On** or **Off**.	On Off*	

AppleTalk

Use this menu selection to view or change the printer AppleTalk settings.

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Menu selection:	Purpose:	Values:	
View Name	Displays the assigned AppleTalk name.	Selecting **View Name** displays the AppleTalk name on the operator panel.	
View Address	Displays the assigned AppleTalk address.	Selecting **View Address** displays the AppleTalk address on the operator panel.	
Activate	Activates or deactivates the AppleTalk feature.	On	Activates the AppleTalk feature.
		Off	Deactivates the AppleTalk feature.
Set Zone *	Provides a list of zones from network.	Default will be default zone for the network. If no default zone exists on the network, the * will be the default.	

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Understanding the Operator Panel Messages

The printer operator panel displays messages describing the current state of the printer and indicates possible printer problems you must resolve. This chapter provides a list of all printer messages, explains what they mean, and tells you how to clear the messages.

The following table lists the messages in alphanumerical order. You can also locate a message using the index.

Message	Action
30 Invalid refill, change cartridge	Install a new cartridge. For more information, see Replacing the Toner Cartridge.
31 Replace defective print cartridge	Remove the print cartridge, and install a new one. For more information, see Replacing the Toner Cartridge.
32 Replace unsupported print cartridge	Remove the print cartridge, and install a supported one. For more information, see Replacing the Toner Cartridge.
32 Replace unsupported toner cartridge	Remove the toner cartridge, and install a supported one. For more information, see Replacing the Toner Cartridge.
34 Short Paper	ı Press the **Select** button to clear the message and continue printing. The printer does not automatically reprint the page that prompted the message. ı Check tray length and width guides to ensure paper is properly fitted in the tray. ı Make sure the print job is requesting the correct size of paper. ı Adjust the **Paper Size** setting for the size paper you are using. If **MP Feeder Size** is set to **Universal**, make sure the paper is large enough for the formatted data. ı Cancel the current job.
35 Insufficient memory to support Resource Save feature	ı Press the **Select** button to disable **Resource Save** and continue printing. ı To enable **Resource Save** after you get this message: o Make sure the link buffers are set to **Auto**, then exit the menus to activate the link buffer changes. o When Ready is displayed, enable **Resource Save**. ı Install additional memory. For more information, see Installing Printer Memory.
37 Insufficient memory to collate job	ı Press the **Select** button to print the portion of the job already stored and begin collating the rest of the job. ı Cancel the current job.
37 Insufficient memory for Flash Memory Defragment operation	ı Press the **Select** button to stop the defragment operation and continue printing. ı Delete fonts, macros, and other data in printer memory. ı Install additional printer memory. For more information, see Installing Printer Memory.
37 Insufficient memory, some held jobs were deleted	The printer deleted some held jobs in order to process current jobs. Press the **Down** arrow button until appears next to **Continue**, then press the **Select** button to clear the message.
38 Memory Full	ı Press the **Select** button to clear the message and continue printing. The job may not print correctly. ı Cancel the current job. ı Install additional printer memory. For more information, see Installing Printer Memory.
39 Page is too complex to print	ı Press the **Select** button to clear the message and continue printing. The job may not print correctly. ı Cancel the current job. ı Install additional printer memory. For more information, see Installing Printer Memory.
50 PPDS font error	ı Press the **Select** button to clear the message and continue printing. The job may not print correctly. ı Cancel the current job.

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51 Defective flash detected	Press the **Select** button to clear the message and continue printing. You must install different flash memory before you can download any resources to flash. For more information, see Installing Printer Memory.
52 Not enough free space in flash memory for resources	• Press the **Select** button to clear the message and continue printing. Downloaded fonts and macros not previously stored in flash memory are deleted. • Delete fonts, macros, and other data stored on the flash memory. • Install a larger capacity flash memory card. For more information, see Installing Printer Memory.
53 Unformatted flash detected	Press the **Select** button to clear the message and continue printing. You must format the flash memory before you can store any resources on it. If the error message remains, the flash memory may be defective and require replacing.
54 Network <x> software error 54 Standard network software error	• Press the **Select** button to clear the message and continue printing. The job may not print correctly. • Program new firmware for the network interface. • Reset the printer.
55 Unsupported option in slot <x>	1. Turn the printer off. 2. Unplug the power cord from the wall outlet. 3. Remove the unsupported option. 4. Connect the power cord to a properly grounded outlet. 5. Turn the printer on.
56 Parallel port <x> disabled 56 Standard parallel port disabled	• Press the **Select** button to clear the message. The printer discards any data received through the parallel port. • Make sure the Parallel Buffer menu item is not set to Disabled.
56 USB port <x> disabled	• Press the **Select** button to clear the message. The printer discards any data received through the USB port. • Make sure the USB Buffer menu item is not set to Disabled.
56 Standard USB port disabled	• Press the **Select** button to clear the message. The printer discards any data received through the USB port. • Make sure the USB Buffer menu item is not set to Disabled.
58 Too many flash options installed	1. Turn off and unplug the printer. 2. Remove the excess flash memory. 3. Plug in the printer, and turn it on.
58 Too many bins attached	1. Turn off and unplug the printer. 2. Remove the additional bins. 3. Plug in the printer, and turn it on.
58 Too many trays attached	1. Turn off and unplug the printer. 2. Remove the additional drawers. 3. Plug in the printer, and turn it on.
59 Incompatible duplex	• Remove the duplex unit. • Press the **Select** button to clear the message and continue printing without using the duplex unit.
59 Incompatible envelope feeder	• Remove the envelope feeder. • Press the **Select** button to clear the message and continue printing without using the envelope feeder.
59 Incompatible output bin <x>	• Remove the output bin. • Press the **Select** button to clear the message and continue printing without using the specified output bin.
59 Incompatible tray <x>	• Remove the specified tray. • Press the **Select** button to clear the message and continue printing without using the specified tray.
80 Scheduled maintenance advised	• Press the **Select** button to clear the message, and continue printing. • Replace the maintenance items and if necessary, reset the printer maintenance counter. For more information, see Replacing Maintenance Kit Items.

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88 Toner is low	ı Replace the toner cartridge. For more information, see Replacing the Toner Cartridge. ı Press the **Select** button to clear the message and continue printing.
200.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
201.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
202.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
231.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
232.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
233.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
234.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
235.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
236.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
237.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
238.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
239.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
24x.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
250.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
260.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
27x.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
280.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
281.yy Paper jam	1. Clear the paper path. 2. After clearing the paper path, press the **Select** button to resume printing.
900–999 Service <message>	1. Turn the printer off. 2. Unplug the power cord from the wall outlet. 3. Check all cable connections. 4. Connect the power cord to a properly grounded outlet. 5. Turn the printer back on. If the service message recurs, call for service, and report the message number and description of the problem.
Activating Menu Changes	Wait for the message to clear.
Busy	Wait for the message to clear, or cancel the print job.
Calibrating	Wait for the message to clear.

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Cancel not available	Wait for the message to clear.
Cancelling	Wait for the message to clear.
Change <src> <Custom Type Name> Change <src> <Custom String> Change <src> <size> Change <src> <type> <size>	• Press the **Select** button if you have changed the media. • Select Use current to print on media currently in the printer. • Cancel the current job.
Check duplex connection	• Turn the printer off and back on. If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and then remove the duplex unit. Reattach the duplex unit, connect the power cord to a properly grounded outlet, and restart the printer. For more information, see Installing a Duplex Unit. If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and then remove the specified device, and call for service. • Press the **Select** button to clear the message and print without using the device.
Check tray <x> connection	• Turn the printer off and back on. If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and then remove the specified tray. Reattach the tray, connect the power cord to a properly grounded outlet, and restart the printer. For more information, see Installing a 250-Sheet or 500-Sheet Drawer. If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and then remove the specified device, and call for service. • Press the **Select** button to clear the message and print without using the device.
Clearing job accounting statistics	Wait for the message to clear.
Close Door or Insert Cartridge	• Close the upper front door. • Install the toner cartridge.
Copies	Enter the desired number of copies.
Defragmenting Flash DO NOT POWER OFF	Wait for the message to clear. **NOTE:** Do not turn the printer off while this message is displayed.
Delete	• Press the **Select** button to delete the specified job. • Press **Stop** to cancel the operation.
Delete all	• Press the **Select** button to delete all confidential jobs. • Press **Stop** to cancel the operation.
Delete all confidential jobs	• Press the **Select** button to delete all held jobs. • Press **Stop** to cancel the operation.
Deleting	Wait for the message to clear.
Disabling DLEs	Wait for the message to clear.
Disabling Menus	Wait for the message to clear. **NOTE:** While the menus are disabled, you cannot change the printer settings from the operator panel.
Enabling Menus	Wait for the message to clear.
Enter PIN	Enter the PIN you identified in the driver when you sent the confidential job to the printer.
Enter PIN to lock	Enter the correct pin number to lock the operator panel and prevent menu changes.
Flushing buffer	Wait for the message to clear.
Formatting Flash DO NOT POWER OFF	Wait for the message to clear. **NOTE:** Do not turn the printer off while this message is displayed.
Hex Trace	The printer is in **Hex Trace** mode.
Insert Tray <x>	Insert the specified tray into the printer.
Install bin <x>	• Turn the printer off, unplug the power cord from the wall outlet, install the specified bin, connect the power cord to a properly grounded outlet, and then restart the printer. For more information, see Installing a 250-Sheet or 500-Sheet Drawer. • Cancel the current job.
Install duplex	• Turn the printer off, unplug the power cord from the wall outlet, install the duplex unit, connect the power cord to a properly grounded outlet, and then restart the printer. For more information, see Installing a Duplex Unit. • Cancel the current job.
Install envelope feeder	• Turn the printer off, install the envelope feeder, and restart the printer. For more information, see Installing an Envelope Feeder. • Cancel the current job.
Install tray <x>	• Turn the printer off, unplug the power cord from the wall outlet, install the specified tray, reconnect the power cord to a properly grounded outlet, and then restart the printer. For more information, see Installing a 250-Sheet or 500-Sheet Drawer. • Cancel the current job.

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Internal System Error Reload Bookmarks	• Reload the Bookmarks. • Press the **Select** button to clear the message and continue printing.
Internal System Error, Reload Security Certificates	• Reload the Security Certificates. • Press the **Select** button to clear the message and continue printing.
Invalid Network Code	Download valid code to the internal print server. **NOTE:** You can download network code while this message is displayed.
Invalid Engine Code	Download valid engine code to the printer. **NOTE:** You can download engine code while this message is displayed.
Invalid PIN	Enter the correct PIN.
Load manual feeder with <Custom Type> Load manual feeder with <Custom String> Load manual feeder with <size> Load manual feeder with <size> <type>	• Load the specified paper in the manual feed tray or multipurpose feeder. • Press the **Select** button to ignore the manual feed request and print on paper already installed in one of the input sources. If the printer finds a tray that has paper of the correct type and size, it feeds paper from that tray. If the printer cannot find a tray with the correct paper type and size, it prints on whatever paper is installed in the default input source. • Cancel the current job.
Load <src> with <Custom Type Name> Load <src> with <Custom String> Load <src> <size> Load <src> <type> <size>	• Load the input source with the correct type and size media. • Cancel the current job.
Maintenance	Replace the maintenance items and, if necessary, reset the printer maintenance counter.
Menus are Disabled	The printer menus are disabled. You cannot change the printer settings from the operator panel. **NOTE:** You can still cancel a job, print a confidential job, or print a held job. Contact your system support person.
Network Network <x>	A network interface is the active communication link.
Network <x>, <y>	A network interface is the active communication link, where <x> represents the active communication link, and <y> represents the channel.
No held jobs	Wait for the message to clear.
No jobs found	**NOTE:** The four-digit personal identification number (PIN) you entered is not associated with any confidential print job. • Select Try again to enter another PIN. • Select Cancel to exit the Enter PIN screen.
No jobs to cancel	Wait for the message to clear.
Overflow Bin Full	Remove the stack of paper from the bin to clear the message.
Parallel Parallel <x>	A parallel interface is the active communication link.
Power Saver	• Send a job to print. • Press the **Select** button to warm the printer to normal operating temperature and display the Ready message.
Printer locked, enter PIN to unlock	The operator panel has been locked. Enter the correct PIN number.
Printing	Wait for the message to clear.
Printing Alignment Page	Wait for the message to clear.
Programming System Code	Wait for the message to clear and the printer to reset. **NOTE:** Do not turn the printer off while this message is displayed.
Programming Flash	Wait for the message to clear. **NOTE:** Do not turn the printer off while this message is displayed.
Ready	Send a job to print.

Reattach bin <x>	• Turn the printer off and back on.
	  ○ If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and remove the specified bin, then reattach the bin to the printer, reconnect the power cord to a properly grounded outlet, and then restart the printer.
	  ○ If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and remove the specified device, and call for service.
	• Press the **Select** button to clear the message and print without using the specified bin.

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Reattach bins <x> - <y>	• Turn the printer off and back on.
	  ○ If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and remove the specified bins, then reattach the bin to the printer, r, and then restart the printer.
	  ○ If the error recurs, turn the printer off, unplug the power cord from the wall outlet, and remove the specified bin, and call for service.
	• Press the **Select** button to clear the message and print without using the specified bins.

Reattach envelope feeder	• Turn the printer off and back on.
	  ○ If the error recurs, turn the printer off, remove the envelope feeder, then reattach the envelope feeder to the printer.
	  ○ If the error recurs, turn the printer off, remove the envelope feeder, and call for service.
	• Press the **Select** button to clear the message and print without using the envelope feeder.

Remote Management Active DO NOT POWER OFF	The printer settings are being configured, and the printer was taken offline to ensure it is not currently printing and processing jobs. Wait for the message to clear.
Remove paper from bin <x>	Remove the stack of paper from the specified bin(s).
Remove paper from all bins	Remove the paper from all output bins.
Remove paper from <linked set bin name>	The printer automatically senses media removal and resumes printing. If removing the media does not clear the message, Press the **Select** button .
Remove paper from standard output bin	Remove the paper from the standard bin.
Resetting Active Bin	Wait for the message to clear.
Resetting the Printer	Wait for the message to clear.

Restoring Factory Defaults	Wait for the message to clear.
	
	NOTE: When factory default settings are restored:
	
	• All downloaded resources (fonts, macros, symbol sets) in the printer memory are deleted.
	• All menu settings return to the factory default setting *except*:
	  ○ The Display Language setting in the "Setup" Menu.
	  ○ All settings in the "Parallel" Menu, "Network" Menu, "Infrared" Menu, "LocalTalk" Menu, and "USB" Menu.

Restoring held job(s) x/y	• Wait for the message to clear. • Select `Quit restoring` to delete unrestored Print and Hold jobs. **NOTE:** x represents the number of the job being restored, and y represents the total number of jobs to be restored.
Some held jobs were lost	• Press the **Select** button to clear the message and continue printing. The printer frees memory by deleting the oldest held job and continues deleting held jobs until there is enough printer memory to process the job. • Cancel the current job.
Standard Bin Full	Remove the stack of paper from the bin to clear the message.
Submitting selection	Wait for the message to clear.
Toner Low	• Replace the toner cartridge. • Press **Select** to clear the message and continue printing.
Tray <x> Empty	Load paper in the tray to clear the message.
Tray <x> Low	Add paper to the tray to clear the message.
Tray <x> Missing	Insert the tray into the printer.
USB	The printer is processing data through the specified USB port.
USB <x>	
View supplies	Displays the current level of all printer supplies.
Waiting	The printer has received a page of data to print, but is waiting for an End of Job command, a Form Feed command, or additional data. • Press the **Select** button to print the contents of the buffer. • Cancel the current job.

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Installing Drivers for Network Printing

- Printing a Network Setup Page
- Assigning a Printer IP Address
- Verifying the IP Settings
- Windows
- Macintosh
- Linux/UNIX
- NetWare

Printing a Network Setup Page

If the printer is attached to a network, print a network setup page on the printer to verify the network connection. This page also provides important information to configure the printer for network printing.

1. Make sure the printer is on.
2. Press the **Menu** button on the operator panel.
3. Press the **Down** arrow button until appears next to Reports, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to Network Setup Page, and then press the **Select** button .

NOTE: If an optional print server is installed, Print Net1 Setup appears on the display.

5. Check the first section on the network setup page, and confirm that **Status** is "Connected."

   If **Status** is "Not Connected," the LAN drop may not be active, or the network cable may be malfunctioning. Consult a system support person for a solution, and print another network setup page to verify the printer is connected to the network.

Assigning a Printer IP Address

If the network is using DHCP, an IP address is automatically assigned after connecting the network cable to the printer. The default IP address should be **169.254.x.x**.

1. Look for the address under the "TCP/IP" heading on the network setup page printed in Printing a Network Setup Page.
2. Go to Verifying the IP Settings, and begin with step 2.

If the network is not using DHCP, then manually assign an IP address to the printer. One of the easiest ways is to use the operator panel:

1. Press the **Menu** button on the operator panel.
2. Press the **Down** arrow button until appears next to Network/Ports, and then press the **Select** button .
3. Press the **Down** arrow button until appears next to TCP/IP, and then press the **Select** button .

   Standard Network appears if the printer has a network port on the printer system board. If a print server is installed, you see Network Option 1.
4. Press the **Down** arrow button until appears next to Address, and then press the **Select** button .
5. Using the numeric pad, enter the IP address. When the address is entered, press the **Select** button .

   Submitting Selection appears briefly.
6. Press the **Down** arrow button until appears next to Netmask, and then press the **Select** button .
7. Using the numeric pad, enter the IP netmask. When the address is entered, press the **Select** button .

   Submitting Selection appears briefly.

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8. Press the **Down** arrow button until appears next to Gateway, and then press the **Select** button .
9. Using the numeric pad, enter the IP gateway. When the address is entered, press the **Select** button .

   Submitting Selection appears briefly.
10. Press the **Select** button until the printer returns to Ready.

Verifying the IP Settings

1. Print another network setup page. Look under the "TCP/IP" heading, and make sure the IP address, netmask, and gateway are correct. See Printing a Network Setup Page if you need help.
2. Ping the printer, and verify that it responds. At a command prompt on a network computer, type ping followed by the new printer IP address (for example, 192.168.0.11).

NOTE: On Windows computers, click **Start**→ **Programs**→ **Command prompt** or **Start**→ **Programs**→ **Accessories**→ **Command prompt**.

If the printer is active on the network, a reply is sent.

After the TCP/IP settings are assigned and verified, install the printer on each network computer.

Operating System
Windows
Macintosh
Linux/UNIX
NetWare

Windows

In Windows environments, network printers can be configured for direct printing or shared printing. Both network printing methods require the installation of a printer driver and the creation of a network printer port.

Supported Printer Drivers

Custom drivers are available on the *Drivers and Utilities* CD.

Supported Network Printer Ports

- Microsoft Standard TCP/IP port — Windows XP Professional x64, Windows XP, Windows Server 2003, and Windows 2000
- LPR — Windows NT 4.0
- Printer network ports — Windows XP Professional x64, Windows XP, Windows Server 2003, Windows 2000, and Windows 98 SE/Me

For basic printer functionality, install a printer driver, and use a system network printer port, such as an LPR or a standard TCP/IP port. The printer driver and port let you maintain a consistent user interface for use with all the printers on the network. Using a custom network port provides enhanced functionality, such as printer status alerts.

Direct Attachment With a Network Cable (Using a Print Server)

A print server is any designated computer that centrally manages all client print jobs. If you are sharing your printer in a small workgroup environment and want to control all print jobs on the network, follow these instructions to attach the printer to a print server.

1. Insert the *Drivers and Utilities* CD into your computer.
2. The *Drivers and Utilities* CD should launch the installation software automatically.

   If the CD does not automatically launch, click **Start**→**Run**, type **D:\setup.exe** (where D is the drive letter of your CD), and then click **OK**.
3. When the *Drivers and Utilities* CD screen appears, click **Network Installation - Install the printer for use on a network**.
4. For local installation, select **Install printer on this computer**, and then click **Next**.

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For remote installation:

a. Select **Install printer on one or more remote computers**, and then click **Next**.

b. Enter your Administrator user name and password, and then click **Add**.

c. Select the clients or servers, and then click **Next**.

5. Select the network printer you would like to install. If you do not see your printer listed, click **Update** to refresh the list, or click **Add Printer** to add a printer to the network.
6. Select **I am setting up this printer on a server**, and then click **Next**.
7. Select your printer from the list. If you would like to change the printer name listed, enter a new name in the Printer Name field.
8. If you want other users on the network to access this printer, select **Share this printer with other computers**, and then enter a share name that users will easily identify.
9. Click **Next**.
10. Select the software and documentation you want to install, and then click **Install**.
11. When the **Congratulations!** screen appears, select whether or not to restart your computer, and then click **Finish**.

Direct Attachment With a Network Cable (No Print Server)

If you are sharing your printer in a small workgroup environment and do not want to use a print server, follow these instructions to attach the printer directly to a client computer.

1. Insert the *Drivers and Utilities* CD into your computer.
2. The *Drivers and Utilities* CD should launch the installation software automatically.

   If the CD does not automatically launch, click **Start**→**Run**, type **D:\setup.exe** (where D is the drive letter of your CD), and then click **OK**.
3. When the *Drivers and Utilities* CD screen appears, click **Network Installation - Install the printer for use on a network**.
4. Select **Install printer on one or more remote computers**, and then click **Next**.
5. Enter your Administrator user name and password, and then click **Add**.
6. Select the clients or servers, and then click **Next**.
7. Select the network printer you would like to install, and then click **Next**. If you do not see your printer listed, click **Update** to refresh the list or click **Add Printer** to add a printer to the network.
8. Select your printer from the list. If you would like to change the printer name listed, enter a new name in the Printer Name field.
9. If you want other users on the network to access this printer, select **Share this printer with other computers**, and then enter a share name that users will easily identify.
10. Click **Next**.
11. Select the software and documentation you want to install, and then click **Install**.
12. When the Congratulations! screen appears, print a test page to verify the software is installed correctly.
13. Click **Finish** to exit.

Local Attachment With a USB or Parallel Cable (Using a Print Server)

If you are connecting the printer with a USB cable or a parallel cable and want to share it with multiple users, follow these instructions to attach the printer to a print server.

NOTE: Use a network cable to connect the printer to access the Dell Printer Configuration Web Tool. This application is not available when the printer is connected to a computer with a USB or parallel cable.

Some Windows operating systems may already include a printer driver that is compatible with the printer.

NOTE: Installing a custom driver will not replace the system driver. A separate printer object will be created and appear in the Printers folder.

Computer Operating System:	Use this type of cable:
Windows XP Professional x64 Windows XP Windows 2003 Server Windows 2000 Windows Me Windows 98 SE	USB or Parallel
Windows NT	Parallel

Installing the Printer Software

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NOTE: Windows XP Professional x64, Windows XP Professional, and Windows NT require that you have administrative access to install printer drivers on your computer.

1. Turn on your computer and insert the *Drivers and Utilities* CD. The *Drivers and Utilities* CD should automatically launch. This may take a few seconds.

   If the CD doesn't launch automatically, browse to the CD drive, and double-click **setup.exe**.

2. When the *Drivers and Utilities* CD screen appears, click **Network Installation - Install the printer for use on a network**.
3. For local installation, select **Install printer on this computer**, and then click **Next**.

   For remote installation:

   a. Select **Install printer on one or more remote computers**, and then click **Next**.

   b. Enter your Administrator user name and password, and then click **Add**.

   c. Select the clients or servers, and then click **Next**.

4. Select the network printer you would like to install. If you do not see your printer listed, click **Update** to refresh the list, or click **Add Printer** to add a printer to the network.
5. Select **I am setting up this printer on a server**, and then click **Next**.
6. Select your printer from the list. If you would like to change the printer name listed, enter a new name in the Printer Name field.
7. If you want other users on the network to access this printer, select **Share this printer with other computers**, and then enter a share name that users will easily identify.
8. Click **Next**.
9. Select the software and documentation you want to install, and then click **Install**.

   When all of the files are installed on your computer, the **Congratulations!** screen appears and prompts you to connect your printer.

10. Click **Finish**, and then connect the printer to the computer using a USB or parallel cable, and turn the printer on.

    Microsoft's Plug-N-Play finishes installing the printer and prompts you when setup is complete.

Installing Additional Printer Drivers

If you wish to install additional printer drivers on your computer, follow these steps.

1. Turn on your computer and insert the *Drivers and Utilities* CD. If the *Drivers and Utilities* CD appears, click **Cancel**.
2. *In Windows XP,* click **Start→Control Panel→Printers and Other Hardware→Printers and Faxes**.

   In all others, click **Start→Settings→Printers**.

3. Double-click **Add Printer**.
4. Click **Next**.
5. Select Local printer attached to this computer, and then click **Next**.
6. Select the port you want your printer to use, and then click **Next**.
7. Select **Have Disk**.
8. Browse to your CD drive and select the correct driver for your operating system.

NOTE: If you installed the printer drivers from the *Drivers and Utilities* CD before you connected the printer to your computer, the PCL driver for your operating system was installed by default.

Operating System	Driver Type	Driver Name
Windows XP Professional x64	PCL	D:\Drivers\Print\x64\dkaatb40.inf
	PS	D:\Drivers\Print\x64\dkaat940.inf
Windows XP Windows 2003 Server Windows 2000	PCL	D:\Drivers\Print\Win_2kXP\dkaat2da.inf
	PS	D:\Drivers\Print\Win_2kXP\dkaat1da.inf
Windows NT	PCL	D:\Drivers\Print\Win_NT.40\dkaat2da.inf
	PS	D:\Drivers\Print\Win_NT.40\dkaat1da.inf
Windows Me Windows 98 SE	PCL	D:\Drivers\Print\Win_9xme\<your language>\dkaat2da.inf
	PS	D:\Drivers\Print\Win_9xme\<your language>\dkaat1da.inf

9. Click **Open**, and then click **OK**.
10. Select the type of driver you wish to install (PCL or PS) in the **Manufacturer** list, and the printer model in the **Printers** list, and then click **Next**.
11. Proceed through the rest of the **Add Printer Wizard**, and then click **Finish** to install the printer driver.

Shared Printing

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NOTE: If you need to set up your printer in a mixed 32-bit and 64-bit operating system environment, consult your Network Administrator about which printer driver to use. For more information about printing in a mixed environment, visit support.dell.com.

You can use Microsoft's Point and Print or Peer-to-Peer methods to share a printer on the network with a USB or parallel cable connection. To use one of these methods, you must first share the printer and then install the shared printer on client computers.

However, if you use one of these Microsoft methods, you will not have all the Dell features, such as the Status Monitor, that are installed with the *Drivers and Utilities* CD.

Share the Printer

1. *In Windows XP,* click **Start→Control Panel→Printers and Other Hardware→Printers and Faxes**.

   In all others, click **Start→Settings→Printers**.
2. Select the printer.
3. Click **File→Sharing**.
4. Click **If you understand the security risk but want to share printers without running the wizard, click here**.
5. Select **Just enable printer sharing**, and then click **OK**.
6. Select **Share this printer**, and then type a name in the Shared Name text box.
7. Click **Additional Drivers**, and select the operating systems of all network clients printing to this printer.
8. Click **OK**.

   If you are missing files, you are prompted to insert the server operating system CD.

To check that the printer was successfully shared:

- Make sure the printer object in the Printers folder shows it is shared. For example, in Windows 2000, a hand is shown underneath the printer icon.
- Browse My Network Places or Network Neighborhood. Find the host name of the server, and look for the shared name you assigned to the printer.

Now that the printer is shared, you can install the printer on network clients using the point and print method or the peer-to-peer method.

Install the Shared Printer on Client Computers

Point and Print

This method is the best use of system resources. The print server handles driver modifications and print job processing. This lets network clients return to their programs much faster.

If you use the Point and Print method, a subset of driver information is copied from the print server to the client computer. This is just enough information to send a print job to the printer.

1. On the Windows desktop of the client computer, double-click **My Network Places** or **Network Neighborhood**.
2. Locate the host name of the print server computer, and then double-click the host name.
3. Right-click the shared printer name, and then click **Install** or **Connect**.

   Wait for the driver information to copy from the print server computer to the client computer, and for a new printer object to be added to the Printers folder. The time this takes varies, based on network traffic and other factors.
4. Close My Network Places or Network Neighborhood.
5. Print a test page to verify print installation.
6. *In Windows XP,* click **Start→Control Panel→Printers and Other Hardware→Printers and Faxes**.

   In all others, click **Start→Settings→Printers**.
7. Select the printer you just created.
8. Click **File→Properties**.
9. From the General tab, click **Print Test Page**.

   When a test page prints successfully, printer installation is complete.

Peer-to-Peer

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If you use the Peer-to-Peer method, the printer driver is fully installed on each client computer. Network clients retain control of driver modifications. The client computer handles the print job processing.

1. *In Windows XP,* click **Start**→**Control Panel**→**Printers and Other Hardware**→**Printers and Faxes**.

   In all others, click **Start**→**Settings**→**Printers**.

2. Click **Add Printer** to launch the Add Printer wizard.
3. Click **Network Print Server**.
4. Select the network printer from the Shared printers list. If the printer is not listed, type the path of the printer in the text box.

   For example: **\\<print server host name>\<shared printer name>**

   The print server host name is the name of the print server computer that identifies it to the network. The shared printer name is the name assigned during the print server installation process.

5. Click **OK**.

   If this is a new printer, you may be prompted to install a printer driver. If no system driver is available, then you will need to provide a path to available drivers.

6. Select whether you want this printer to be the default printer for the client, and then click **Finish**.
7. Print a test page to verify printer installation:
   a. *In Windows XP,* click **Start**→**Control Panel**→**Printers and Other Hardware**→**Printers and Faxes**.

      In all others, click **Start**→**Settings**→**Printers**.

   b. Select the printer you just created.
   c. Click **File**→**Properties**.
   d. From the General tab, click **Print Test Page**.

   When a test page prints successfully, printer installation is complete.

Macintosh

NOTE: A PostScript Printer Description (PPD) file provides detailed information about the capabilities of a printer to UNIX or Macintosh computers.

To print to a network printer, each Macintosh user must install a custom PostScript Printer Description (PPD) file, and either create a desktop printer on the computer (Mac OS 9.x) or create a print queue in Print Center (Mac OS X).

Mac OS X

Step 1: Install a Custom PPD File

Install a PostScript Printer Description (PPD) file on the computer.

1. Insert the *Drivers and Utilities* CD.
2. Double-click the installer package for the printer.

NOTE: A PPD file provides detailed information about the capabilities of a printer to the Macintosh computer.

3. Click **Continue** on the **Welcome** screen and again after viewing the Readme file.
4. Click **Continue** after viewing the license agreement, and click **Agree** to accept the terms of the agreement.
5. Select a **Destination**, and click **Continue**.
6. On the **Easy Install** screen, click **Install.**
7. Enter the password, and click **OK**. All the necessary software is installed on the computer.
8. Click **Close** when installation is complete.

Step 2: Create a Print Queue in Print Center or Printer Setup Utility

Using AppleTalk Printing

Follow these steps to create a print queue using AppleTalk Printing.

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1. Open Finder, click **Applications**, and click **Utilities**.
2. Double-click **Print Center or Printer Setup Utility**.
3. Choose **Add Printer** from the "Printers" menu.
4. Choose **AppleTalk** from the pop-up menu.

NOTE: Look on the network setup page under the "AppleTalk" heading to know which zone or printer to select.

5. Select the AppleTalk zone from the list.
6. Select the new printer from the list, and click **Add**.
7. Verify printer installation:
    a. Open Finder, click **Applications**, and click **TextEdit**.
    b. Choose **Print** from the "File" menu.
    c. Choose **Summary** from the "Copies & Pages" pop-up menu.

NOTE: To know which zone or printer to select, look on the Network Setup page under the "AppleTalk" heading to find the default name of the printer.

- If the PPD file displayed in the **Summary** window is correct for the printer, then printer setup is complete.
- If the PPD file displayed in the **Summary** window is not correct for the printer, delete the printer from the printer list in **Print Center** or **Printer Setup Utility**, and repeat Step 1: Install a Custom PPD File.

Using IP Printing

Follow these steps to create a print queue using IP Printing. To create an AppleTalk print queue, see Step 2: Create a Print Queue in Print Center or Printer Setup Utility.

1. Open Finder, click **Applications**, and click **Utilities**.
2. Double-click **Print Center or Printer Setup Utility**.
3. Choose **Add Printer** from the "Printers" menu.
4. Choose **IP Printing** from the pop-up menu.
5. Enter the IP address or the printer DNS name in the **Printer Address** box.
6. Choose the printer manufacturer from the "Printer Model" pop-up menu.
7. Select the new printer from the list, and click **Add**.
8. Verify printer installation:
    a. Open Finder, click **Applications**, and click **Text Edit**.
    b. Choose **Print** from the "File" menu.
    c. Choose **Summary** from the "Copies & Pages" pop-up menu.
    d. Do one of the following:
    - If the PPD file displayed in the **Summary** window is correct for the printer, then printer setup is complete.
    - If the PPD file displayed in the **Summary** window is *not* correct for the printer, delete the printer from the printer list in **Print Center** or **Printer Setup Utility**, and repeat Step 1: Install a Custom PPD File.

Mac OS 9.x

Step 1: Install a Custom PPD File

1. Insert the *Drivers and Utilities* CD.
2. Double-click **Classic**, and double-click the installer package for the printer.

NOTE: A PPD file provides detailed information about the capabilities of a printer to the Macintosh computer.

3. Choose the appropriate language, and click **Continue**.
4. Click **Continue** after viewing the Readme file.
5. Click **Continue** after viewing the license agreement, and click Agree to accept the terms of the agreement.
6. On the **Easy Install** screen, click **Install**. All the necessary files are installed on the computer.
7. Click **Close** when installation is complete.

Step 2: Create a Desktop Printer

1. In the Chooser, select the **LaserWriter 8** driver.
2. For a routed network, select the default zone from the list. If you don't know which zone to select, look on the Network Setup page under AppleTalk for

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Zone.

3. Select the new printer from the list.
4. To know which printer to select, look on the Network Setup page under the "AppleTalk" heading to find the default name of the printer.
5. Click **Create**.
6. Make sure there is an icon next to the printer name in the **Chooser**.
7. Close the **Chooser** window.
8. Verify printer installation.
   a. Click the newly created desktop printer icon.
   b. Choose **Printing→ Change Setup**.
   - If the PPD file displayed in the **PostScript Printer Description (PPD) file** portion of the menu is correct for the printer, printer setup is complete.
   - If the PPD file displayed in the **PostScript Printer Description (PPD) file** portion of the menu is *not* correct for the printer, repeat Step 1: Install a Custom PPD File.

Linux/UNIX

Local printing is supported on many Linux and UNIX platforms, such as Sun Solaris and Red Hat.

Printer driver packages are available on the *Drivers and Utilities* CD. All the printer driver packages support local printing using a parallel connection. The driver package for Sun Solaris supports USB connections to Sun Ray appliances and Sun workstations.

Before Installing

Do the following before you install printer drivers:

1. Make sure you are logged on with root user authority.
2. Make sure you have enough disk space available for a complete installation.
3. Set up an administrative user group.

   During the installation of printer drivers, you will be asked if you want to change the administrative user group for printer drivers. The default administrative group is bin.

   If you have an administrative group on your host, you might want to use that group as the printer drivers administrative group. Non-administrative users cannot add or remove printer queues.
4. Decide where to install the printer drivers package.

   The printer drivers package can be installed in various arrangements. You can install printer drivers on:

   - Each workstation you want to run printer drivers.
   - One host, while other workstations can NFS mount the printer drivers package files. For help, see NFS mount printer drivers.

Supported Operating Systems

Make sure you are running one of the following versions of Linux with the latest available patches.

- Debian GNU/Linux
- Linspire Linux
- RedHat Linux
- SuSE Linux

Linux System Requirements

Printer drivers has minimum Linux installation space requirements of 70MB in /usr/local.

Installing on RedHat Linux or SuSE Linux

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1. Read Before Installing.
2. Mount the CD.
3. Change your directory to the package file directory. If you mounted your CD-ROM to /mnt/cdrom:

   ```
   # cd /mnt/cdrom/unix/packages
   ```

4. Install the package file:

   ```
   # rpm -ivh print-drivers-linux-glibc2-x86.rpm
   ```

5. Run the following setup script to complete the installation:

   ```
   # /usr/local/dell/setup.dellprint
   ```

NOTE: Your specific printer driver may not be included in the standard package. Check your printer CD or the Web to determine if there are any driver plugins available.

Installing on Linspire or Debian GNU/Linux

1. Read Before Installing.
2. Mount the CD.
3. Change the directory to the package file directory. If you mounted your CD-ROM to /mnt/cdrom:

   ```
   # cd /mnt/cdrom/unix/packages
   ```

4. Install the package file:

   ```
   # deb -i print-drivers-linux-glibc2-x86.deb
   ```

5. Run the following setup script to complete the installation:

   ```
   # /usr/local/dell/setup.dellprint
   ```

NOTE: Your specific printer driver may not be included in the standard package. Check your printer CD or the Web to determine if there are any driver plugins available.

Installing on Sun Solaris SPARC

1. Set the NONABI_SCRIPTS environment variable to **TRUE**.
2. Install the package file.
   a. Check to see if you are running Volume Manager by typing the following on the command line and then pressing **Enter**:

      ```
      # ps -ef | grep vold
      ```

      If you get a response, the vold process is running, and therefore the Volume Manager is running. The CD automatically mounts. Start the package installation program by typing:

      ```
      # pkgadd -d /cdrom/cdrom0/unix/packages/ print-drivers-solaris2-sparc.pkg
      ```

      If there is not a response, Volume Manager is not running.

      - Make sure that the /cdrom directory exists.
      - Mount the CD. For example, if the path to the CD-ROM drive is /dev/dsk/c0t6d0s2, the command is: `# mount -F hsfs -o ro /dev/dsk/c0t6d0s2 /cdrom`
      - Start the package installation program by typing: `# pkgadd -d /cdrom/unix/packages/print-drivers-solaris2-sparc.pkg`

   b. Continue with the instructions on the screen.
3. A list of available packages appears:

   To install all the packages, type all, and then press **Enter**.

   To install individual packages, type each package number separated by a comma, and then press **Enter**. For example: `1,2,3`.
4. Follow the prompts, and answer any questions that appear on the screen:
   a. To accept the defaults, press **Enter**.
   b. To answer yes/no questions, type y, n, or ? , and then press **Enter**.
   c. When a message appears telling you the installation was successful, type q to quit.

Removing Print Drivers

A system administrator removes printer drivers using the utilities listed in this table.

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Depending on your operating system, you mark the printer drivers packages for removal after you start the program, or you type the names of the printer drivers package names you want to remove on the command line. See your operating system documentation for more information.

Operating system	Package removal tool
RedHat Linux and SuSE Linux	rpm -e
Linspire Linux, and Debian GNU/Linux	dpkg -r

Run the uninstall script to remove symbolic links created during installation:

```
//usr/local/dell/DELLPrtDrv.unlink
```

Removing remaining directories

Package removal utilities usually do not remove directories shared by more than one package. After removing all of the printer drivers packages, some directories may need to be removed manually.

To see if any directories remain after removing all the packages, check the directory where you installed printer drivers. By default, printer drivers installs in the following location: **/usr/local/dell/unix_prt_drivers**.

NetWare

NDPS/iPrint

The printer supports Novell Distributed Print Services (NDPS/iPrint). For the latest information about installing a network printer in a NetWare environment, refer to your Novell documentation.

Queue-Based Printing

For information about queue-based printing, browse to the **Interwin** folder on the *Drivers and Utilities* CD and open the **Readme** file.

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Installing and Removing Options

- Order of Installation
- Installing a 250-Sheet or 500-Sheet Drawer
- Installing a Duplex Unit
- Installing an Output Expander
- Installing an Envelope Feeder
- Installing Printer Memory
- Installing Font ROMs

Order of Installation

Floor-mounted configurations require additional furniture. You must use either a printer stand or printer base if you are using more than one input option or a duplex unit and an input option.

NOTE: Furniture options may not be available in all regions. Contact your Dell Sales Representative to determine furniture availability.

CAUTION: If you are installing options after setting up the printer, turn the printer off, and unplug the power cord before continuing.

Install the printer and any options you have purchased in the following order:

- Printer stand or printer base
- 250-sheet or 500-sheet drawer
- Duplex unit
- Printer

NOTE: You can install up to four optional paper trays, or three trays and a duplex unit.

CAUTION: The printer requires two people to lift it safely.

CAUTION: Floor-mounted configurations require additional furniture for stability. You must use either a printer stand or printer base if you are using more than one input option or a duplex unit and an input option.

For information on installing a printer stand or printer base, see the instructions included with the option.

Installing a 250-Sheet or 500-Sheet Drawer

NOTE: You can install up to four optional paper trays, or three trays and a duplex unit.

Optional drawers attach under the printer and optional duplex unit. A drawer consists of a tray and a support unit. The 250-sheet drawer and the 500-sheet drawer are installed the same way.

1. Remove the tray from the support unit. Remove all packing material and tape from both the support unit and the tray.

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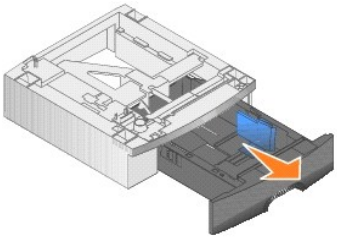
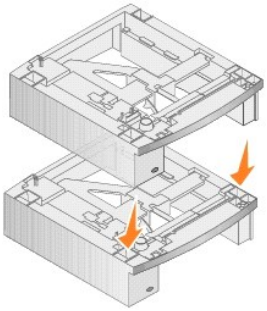
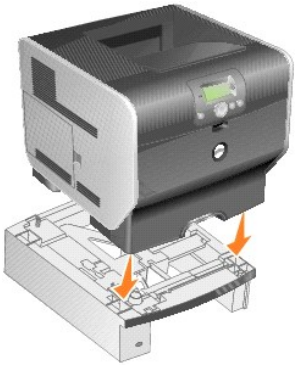


2. Place the support unit on top of any previously installed drawers or the table or printer cabinet where you plan to use the printer.

   The tab, round peg, and square holes on top of any drawer help you position the support unit so the edges are aligned properly. Make sure the support unit is securely in place.



3. Attach another optional drawer, a duplex unit, or the printer.



   You can attach a label to the trays to indicate the tray number.

4. *In Windows XP*, click **Start**→ **Control Panel**→ **Printers and Other Hardware**→ **Printers and Faxes**.

   In all others, click **Start**→ **Settings**→ **Printers**.

5. Right-click the printer icon and select **Properties**.
6. On the **Installed Options** tab, select **250-sheet tray** or **550-sheet tray** in the Available Options list.
7. Click **Add**.
8. Click **OK,** and then close the Printers folder.

If you install multiple paper trays, they will be automatically linked. For more information, see Linking Trays.

Installing a Duplex Unit

NOTE: You can install up to four optional paper trays, or three trays and a duplex unit.

The duplex unit attaches under the printer, below the standard tray and above any drawers.

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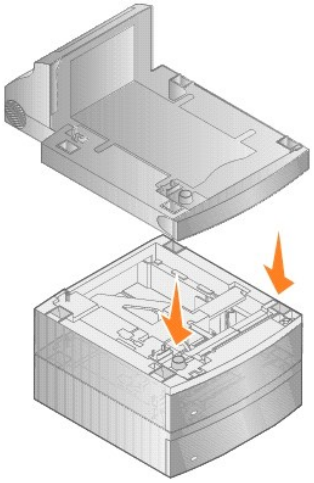
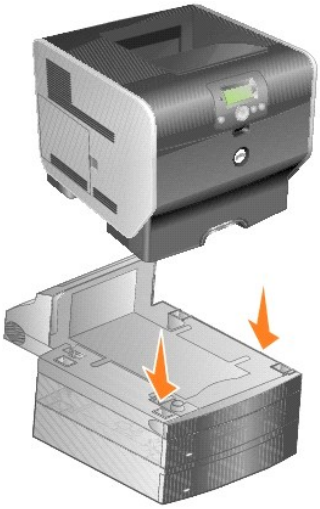
1. Place the duplex unit on top of any installed drawers or the table or printer cabinet where you plan to use the printer.

   The tab, round peg, and square holes on top of any drawer help you position the duplex unit so the edges are aligned properly. Make sure it is securely in place.



2. Attach the printer.



3. *In Windows XP*, click **Start**→ **Control Panel**→ **Printers and Other Hardware**→ **Printers and Faxes**.

   In all others, click **Start**→ **Settings**→ **Printers**.

4. Right-click the printer icon and select **Properties**.
5. On the **Installed Options** tab, select **Duplex option** in the Available Options list.
6. Click **Add**.
7. Click **OK,** and then close the Printers folder.

Installing an Output Expander

Each output expander consists of a support and a removable bin. A wire bail, bracket, and labels are also included.

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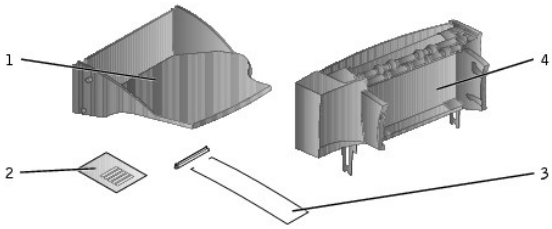


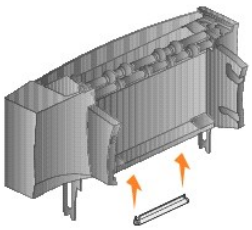
Number	Part
1	Bin
2	Labels
3	Bracket and wire bail
4	Support

NOTICE: The output expander bin is designed to hold the weight of print media only. Excess weight may cause it to disengage from the support.

After you carefully unpack the output expander, install it immediately; otherwise, the edges of the mounting brackets could damage tabletops or fabrics.

1. Remove the top cover from the printer, finisher, or high-capacity output stacker.

2. Slide the plastic bracket onto the static brush holder, located on the bottom of the output expander.



3. Insert the mounting brackets into the slots on top of the printer or print media handling option. Make sure the output expander is positioned securely.

4. If you are mounting the output expander on the printer or another output expander, attach the wire bail. Place the tips of the wire bail into the ends of the plastic bracket so that the bail curves downward.

   The wire bail rests in the output bin of the output expander below it, or in the standard output bin.

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5. Slide the lower tabs on the tray into the lower slots on the output expander.

6. Rotate the tray up until the upper tabs *snap* into the upper slots.
7. If you are not attaching any more print media handling options, attach the top cover to the output expander.

Installing an Envelope Feeder

The envelope feeder attaches to the front of your printer behind the multipurpose feeder. It can be removed when you are not using it, making the printer more compact.

1. Pull on the notch on the front of the printer to lower the multipurpose feeder.

2. Lift open the envelope feeder connector door.

3. Align the tabs on the envelope feeder with the slots on both sides of the printer, and then gently push the envelope feeder into the opening until it *snaps* into place.

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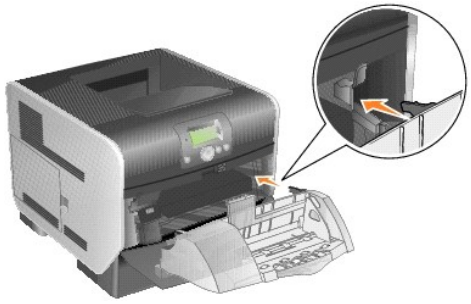


The envelope feeder tilts downward at a slight angle when it is installed properly.

Installing Printer Memory

CAUTION: If you are installing printer memory sometime after setting up the printer, turn the printer off, and unplug the power cord before continuing.

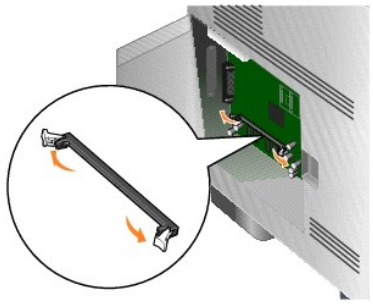
Installing a Printer Memory Card

NOTE: Printer memory cards designed for other printers may not work with the printer. Use only Dell printer memory cards to ensure compatibility.

1. Open the side door.

NOTICE: Printer memory cards are easily damaged by static electricity. Touch something metal such as the printer frame before you touch a memory card.

2. Push open the latches on both ends of the printer memory card connector.



3. Unpack the memory card.

   Avoid touching the connection points along the edge of the card. Save the packaging.

4. Align the notches on the bottom of the card with the notches on the connector.
5. Push the memory card firmly into the connector until the latches on either end of the connector *snap* into place.

   It may require some force to fully seat the card.

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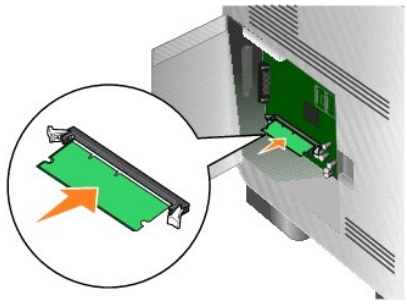
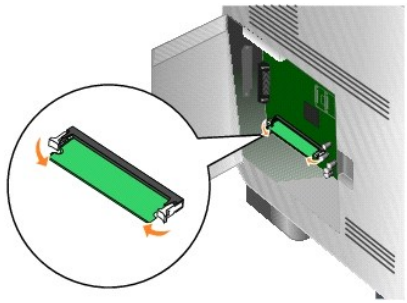


6. Make sure each latch fits over the notch on the end of the card.



7. Close the side door.

Removing a Printer Memory Card

1. Open the side door.

NOTICE: Printer memory memory cards are easily damaged by static electricity. Touch something metal such as the printer frame before you touch a memory card.

2. Push the latches away from the card on both ends of the printer memory card connector.

   The memory card moves out of the connector as the latches open.

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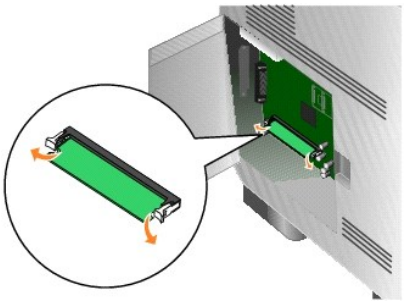
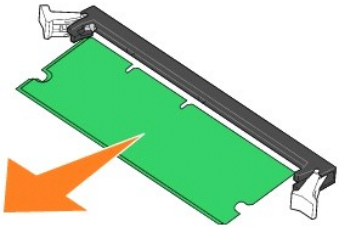


3. Pull the memory card out of the connector.

   Avoid touching the connection points along the edge of the card.

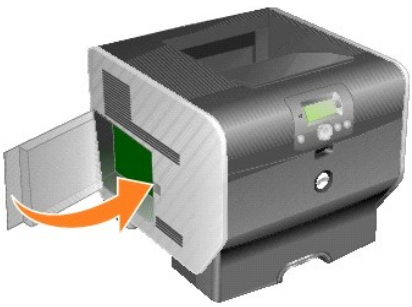


4. Place the card into the original packaging.

   If you do not have the original packaging, wrap the card in paper, and store it in a box.

5. Close both latches.

6. Close the side door.



Installing Font ROMs

NOTE: Font ROMs may not be available in all regions. Contact your Dell Sales Representative to determine Font ROM availability.

Installing Font ROMs

NOTE: Font ROMs designed for other printers may not work with the printer.

1. Open the side door.

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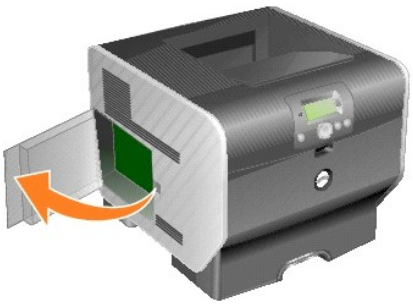
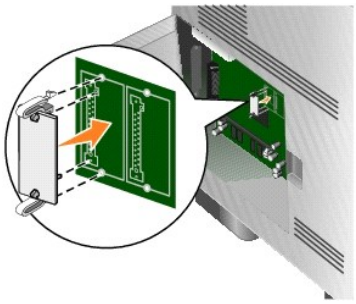


NOTE: If an option card has been installed, you may need to remove the option card before installing the Font ROM.

2. Unpack the Font ROM.

NOTICE: Font ROMs are easily damaged by static electricity. Touch something metal such as the printer frame before you touch a memory card.

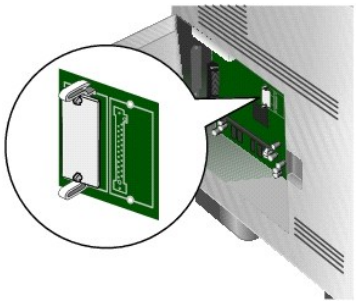
3. Holding the Font ROM by the locking clips, align the plastic pins on the card with the holes on the system board.



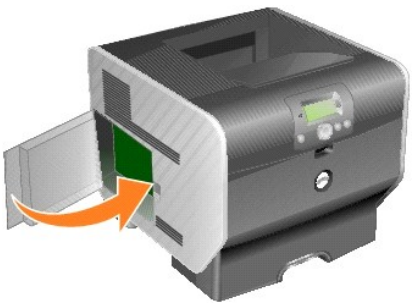
4. Push the Font ROM firmly into place, and release the locking clips.

   The entire length of the connector on the Font ROM must touch the system board and be locked into the connector.

   Be careful not to damage the connectors.



5. Close the side door.



Removing Font ROMs

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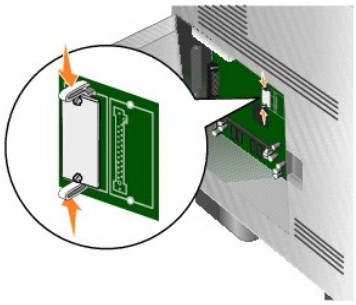
1. Open the side door.

NOTE: If an option card has been installed, you may need to remove the option card before removing the Font ROM.

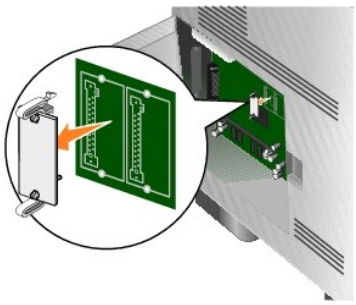
2. Squeeze the Font ROM locking clips.

NOTICE: Font ROMs are easily damaged by static electricity. Touch something metal such as the printer frame before you touch a memory card.



3. Pull the card out.

   Avoid touching the metal pins on the bottom of the card.



4. Place the Font ROM in its original packaging.

   If you do not have the original packaging, wrap the Font ROM in paper, and store it in a box.

5. If you removed an option card to access the Font ROM, reinstall the option card.
6. Close the side door.

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Printing

- Sending a Job to Print
- Canceling a Print Job
- Printing the Menu Settings Page
- Printing a Network Setup Page
- Printing a Font Sample List
- Printing a Directory List
- Printing Confidential and Held Jobs
- Printing on Specialty Media
- Loading Standard Trays and Optional Trays
- Setting the Paper Type and Paper Size
- Loading the Multipurpose Feeder
- Loading the Envelope Feeder
- Linking Trays
- Identifying and Linking Output Bins

This chapter covers information about sending a job to print, printing confidential jobs, canceling a print job, printing a menu settings page, a font list, and a directory list. This chapter also provides information on printing folio and statement size media. For tips on paper jam prevention and print media storage, see Avoiding Jams or Storing Print Media.

Sending a Job to Print

A printer driver is software that lets your computer communicate with the printer. When you choose **Print** from a software application, a window representing the printer driver opens. You can then select the appropriate settings for the specific job you are sending to the printer. Print settings selected from the driver override the default settings selected from the printer operator panel.

You may need to click **Properties** or **Setup** from the initial **Print** dialog to see all of the available printer settings you can change. If you are not familiar with a feature in the printer driver window, open the online Help for more information.

To support all the printer features, use the custom printer drivers supplied with the printer.

To print a job from a typical Windows application:

4. With your document open, click **File**→ **Print**.
5. Select the correct printer in the dialog.
6. Click Preferences, **Properties**, **Options**, or **Setup** to customize your print settings, and then click **OK**.
7. Click **OK** or **Print** to send the job to the selected printer.

Canceling a Print Job

There are several methods for canceling a print job.

- Canceling a Job From the Printer Operator Panel
- Canceling a Job From a Computer Running Windows
  - Canceling a Job From the Taskbar

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- Canceling a Job From the Desktop

- Canceling a Job From a Macintosh Computer
  - Canceling a Print Job From a Computer Running Mac OS 9
  - Canceling a Job From a Computer Running Mac OS X

Canceling a Job From the Printer Operator Panel

If the job is formatting or already printing, and **Cancel a Job** appears on the first line of the display:

1. Press the **Select** button on the operator panel.

   A list of jobs appears.

2. Press the **Down** arrow button until appears next to the job you want to cancel, and then press the **Select** button .

   The message **Canceling <filename>** appears.

NOTE: Once a print job is sent, to easily cancel the job, press the **Cancel** button . The **Stopped** screen appears. Press the **Down** arrow button until appears next to **Cancel a job**, and then press the **Select** button .

Canceling a Job From a Computer Running Windows

Canceling a Job From the Taskbar

When you send a job to print, a small printer icon appears in the right corner of the taskbar.

1. Double-click the printer icon.

   A list of print jobs appears in the printer window.

2. Select the job you want to cancel.
3. Press the **Delete** key on the keyboard.

Canceling a Job From the Desktop

1. Minimize all programs to reveal the desktop.
2. Double-click the **My Computer** icon.

NOTE: If you do not have the **My Computer** icon, you can access the printers folder by selecting **Start**→ **Settings**→ **Control Panel,** and then go to step 4.

3. Double-click the **Printers** icon.

   A list of available printers appears.

4. Double-click the printer you selected when you sent the job.

   A list of print jobs appears in the printer window.

5. Select the job you want to cancel.
6. Press the **Delete** key on the keyboard.

Canceling a Job From a Macintosh Computer

Canceling a Print Job From a Computer Running Mac OS 9

When you send a job to print, the printer icon for your selected printer appears on the desktop.

1. Double-click the printer icon on your desktop.

   A list of print jobs appears in the printer window.

2. Select the print job you want to cancel.
3. Click the trash can button.

Canceling a Job From a Computer Running Mac OS X

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When you send a job to print, the printer icon for your selected printer appears in the dock.

1. Open **Applications**→ **Utilities**, and then double-click **Print Center** or **Printer Setup**.
2. Double-click the printer you are printing to.
3. In the printer window, select the print job you want to cancel.
4. Press **Delete**.

Printing the Menu Settings Page

You can print a menu settings page to review the default printer settings and to verify the printer options are installed correctly.

1. Make sure the printer is on.
2. Press the **Menu** button on the operator panel.
3. Press the **Down** arrow button until appears next to **Reports**, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to **Menu Settings Page**, and then press the **Select** button .

   The printer returns to **Ready** after the page prints.

Printing a Network Setup Page

You can print a network setup page to review the default printer settings and to verify the printer options are installed correctly.

1. Make sure the printer is on.
2. Press the **Menu** button on the operator panel.
3. Press the **Down** arrow button until appears next to **Reports**, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to **Network Setup Page** or **Network <x> Setup Page**, and then press the **Select** button .

   The printer returns to **Ready**.

Printing a Font Sample List

To print samples of the fonts currently available for the printer:

1. Make sure the printer is on and the **Ready** message appears.
2. Press the **Menu** button on the operator panel.
3. Press the **Down** arrow button until appears next to **Reports**, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to **Print Fonts**, and then press the **Select** button .
5. Press the **Down** arrow button until appears next to **PCL Fonts**, **PostScript Fonts**, or **PPDS Fonts**, and then press the **Select** button .

   The printer returns to **Ready**.

Printing a Directory List

A directory listing shows the resources stored in flash memory. To print a listing:

1. Make sure the printer is on and the **Ready** message appears.
2. Press the **Menu** button on the operator panel.

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3. Press the **Down** arrow button until appears next to **Reports**, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to **Print Directory**, and then press the **Select** button .

   The printer returns to **Ready**.

Printing Confidential and Held Jobs

The term *held job* refers to any type of print job that can be initiated by the user at the printer. This includes a confidential job, a verify print job, a reserve print job, a repeat print job, a bookmark, or a profile. When sending a job to the printer, you can specify in the driver that you want the printer to hold the job in memory. Once your job is stored in printer memory, go to the printer, and use the printer operator panel to specify what you want to do with your print job.

All confidential and held jobs have a user name associated with them. To access confidential or held jobs, you must first select the type of job (confidential or held), and then select your user name from the user name list. Once you select your user name, you can print all your confidential jobs or select an individual print job. You can then choose the number of copies for the print job, or you can delete the print job.

Printing a Confidential Job

When you send a confidential job to the printer, you must enter a personal identification number (PIN) from the driver. The PIN must be four digits using the numbers 0–9. The job is held in printer memory until you enter the same four-digit PIN from the operator panel and choose to print or delete the job. This ensures the job does not print until you are there to retrieve it. No one else using the printer can print the job without the PIN.

Windows

1. From a word processor, spreadsheet, browser, or other application, select **File→ Print**.
2. Click **Properties**. (If there is no **Properties** button, click **Setup**, and then click **Properties**.)
3. Depending on the operating system, you may have to click the **Other Options** tab**,** and then click **Print and Hold**.

NOTE: If you have difficulty finding Print and Hold→ Confidential Print, click **Help,** see the topic Confidential Print or Print and Hold, and then follow the driver instructions.

4. Enter a User Name and PIN.
5. Send your job to the printer.

   Go to the printer when you are ready to retrieve your confidential print job, and follow the At the printer steps.

Macintosh

1. From a word processor, spreadsheet, browser, or other application, select **File→ Print**.
2. In the **Copies & Pages** or **General** pop-up menu, select **Job Routing**.
   a. When using Mac OS 9, if Job Routing is not a choice on the pop-up menu, select **Plug-in Preferences→ Print Time Filters.**
   b. Turn down the disclosure triangle to the left of **Print Time Filters**, and select **Job Routing**.
   c. In the pop-up menu, select **Job Routing**.
3. In the radio group, select **Confidential Print**.
4. Enter a User Name and PIN.
5. Send your job to the printer.

   Go to the printer when you are ready to retrieve your confidential print job, and follow the At the printer steps.

At the printer

1. Press the **Down** arrow button until appears next to **Held jobs**, and then press the **Select** button .
2. Press the **Down** arrow button until appears next to your user name, and then press the **Select** button .
3. Press the **Down** arrow button until appears next to **Confidential jobs**, and then press the **Select** button .
4. Enter your PIN by press the **Up** or **Down** arrow button until you see the number you want, and then press Select. Repeat for each number.
5. Press the **Down** arrow button until appears next to the job you want to print, and then press the **Select** button .
6. Press the **Down** arrow button until appears next to the option you want (**Print 1 copy**, **Print copies**, or **Delete**), and then press the **Select** button .

NOTE: After your job prints, it is deleted from printer memory.

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Printing and Deleting Held jobs

Held jobs (Verify Print, Reserve Print, or Repeat Print) are printed or deleted from the printer operator panel and do not require a PIN number.

Verify Print

If you send a Verify Print job, the printer prints one copy and holds the remaining copies you requested in printer memory. Use Verify Print to examine the first copy to see if it is satisfactory before printing the remaining copies. Once all copies are printed, the Verify Print job is automatically deleted from printer memory.

Reserve Print

If you send a Reserve Print job, the printer does not print the job immediately. It stores the job in memory so you can print the job later. The job is held in memory until you delete it from the Held Jobs menu. Reserve Print jobs may be deleted if the printer requires extra memory to process additional held jobs.

Repeat Print

If you send a Repeat Print job, the printer prints all requested copies of the job *and* stores the job in memory so you can print additional copies later. You can print additional copies as long as the job remains stored in memory.

NOTE: Repeat Print jobs are automatically deleted from printer memory when the printer requires extra memory to process additional held jobs.

Windows

1. From a word processor, spreadsheet, browser, or other application, select **File→ Print**.
2. Click Preferences, **Properties**, **Options**, or **Setup** (depending on the program or operating system.
3. Depending on the operating system, you may have to click the **Other Options** tab, and then click **Print and Hold**.

NOTE: If you have difficulty finding Print and Hold→ Held Jobs, click **Help**, and see the topic Held Jobs or Print and Hold, then follow the driver instructions.

4. Select the type of held job you want, and then send your job to the printer.

   Go to the printer when you are ready to retrieve your confidential print job, and follow the At the Printer steps.

Macintosh

1. From a word processor, spreadsheet, browser, or other application, select **File→ Print**.
2. In the **Copies & Pages** or **General** pop-up menu, select **Job Routing**.
   a. When using Mac OS 9, if Job Routing is not a choice on the pop-up menu, select **Plug-in Preferences→ Print Time Filters.**
   b. Turn down the disclosure triangle to the left of **Print Time Filters**, and select **Job Routing**.
   c. In the pop-up menu, select **Job Routing**.
3. In the radio group, select the type of held job you want, enter a user name, and then send your job to the printer.

   Go to the printer when you are ready to retrieve your confidential print job, and follow the At the Printer steps.

At the Printer

1. Press the **Down** arrow button until appears next to **Held jobs**, and then press the **Select** button .
2. Press the **Down** arrow button until appears next to your user name, and then press the **Select** button .
3. Press the **Down** arrow button until appears next to the type of action you want to perform, and then press the **Select** button .
   - Print All
   - Print A Job
   - Print Copies
   - Delete All
   - Delete A Job

   If you selected **Print A Job**, **Delete A Job**, or **Print Copies**, press the **Down** arrow button until appears next to the job you want, and then press the **Select** button .

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The job will print or be deleted according to the type of print job and action you selected.

Printing on Specialty Media

Media is paper, card stock, transparencies, labels,and envelopes. The last four are sometimes referred to as *specialty media*. Follow these instructions to print on specialty media.

1. Load the media as specified for the tray being used. See Loading Standard Trays and Optional Trays for help.
2. From the printer operator panel, set the **Paper Type** and **Paper Size** according to the media you loaded. See Setting the Paper Type and Paper Size for help.
3. From the computer software application, set the paper type, size, and source according to the media you loaded.

Windows

1. With your document open, click **File**→ **Print**.
2. Click **Preferences**, **Properties**, **Options**, or **Setup** (depending on the program or operating system).
3. Click the **Paper** tab.

   A paper tray list will appear.
4. Select the tray containing the specialty media.

NOTE: If you have difficulty, click **Help,** and then follow the driver instructions.

5. Select the media type (transparencies, envelopes, and so on) from the **Paper Type** list box.
6. Select the size of the specialty media from the **Paper Size** list box.
7. Click **OK**, and then send the print job as usual.

Mac OS 9

1. Select **File**→ **Page Setup**.
2. Select the size of the specialty media from the **Paper** pop-up menu, and then click **OK**.
3. Select **File**→ **Print**.
4. With **General** selected on the top pop-up menu, go to the **Paper Source** pop-up menu, and select the tray containing the specialty media or the name of the media.
5. Click **Print**.

Mac OS X

1. Select **File**→ **Page Setup**.
2. Select the printer from the **Format for** pop-up menu.
3. Select the size of the specialty media from the **Paper** pop-up menu, and then click **OK**.
4. Select **File**→ **Print**.
5. On the **Copies & Pages** pop-up menu, select **Imaging**.
6. Select the specialty media on the **Paper Type** pop-up menu.
7. On the **Imaging** pop-up menu, select **Paper Feed**.
8. Select the tray containing the specialty media from the **All pages from** or **First page from / Remaining from** pop-up menus.
9. Click **Print**.

Loading Standard Trays and Optional Trays

The printer has a 500-sheet standard tray. You may have also purchased one or more 250-sheet or 500-sheet optional trays. The steps for loading a 250-sheet tray or 500-sheet tray are the same.

To load print media:

1. Remove the tray from the printer, and place it on a flat, level surface.

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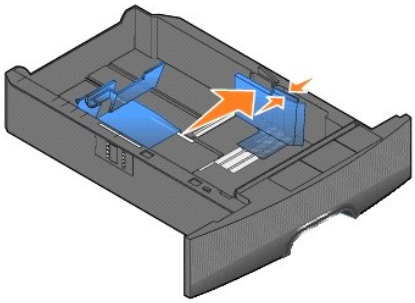
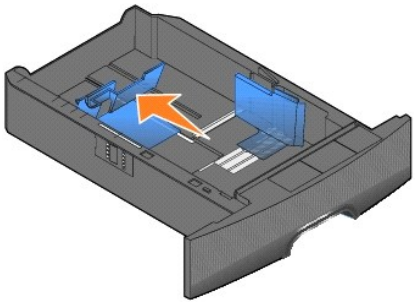
NOTE: Do not remove a tray when a job is printing or when the operator panel indicator light is blinking. Doing so may cause a jam.

2. Squeeze the side guide tab, and slide the guide to the outer edge of the tray.

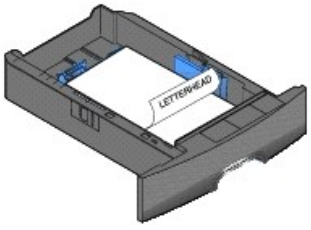
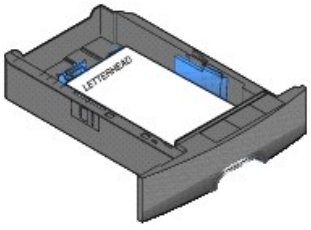


3. Squeeze the rear guide tab, and slide the guide to the correct position for the size media you are loading.



4. Flex the sheets back and forth to loosen them, then fan them. Do not fold or crease the print media. Straighten the edges on a level surface.

5. Place the print media in the tray:

Print side face-down for *simplex* (single-sided) printing	Print side face-up for duplex printing
	

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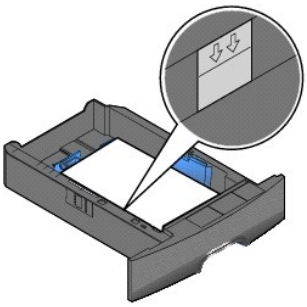
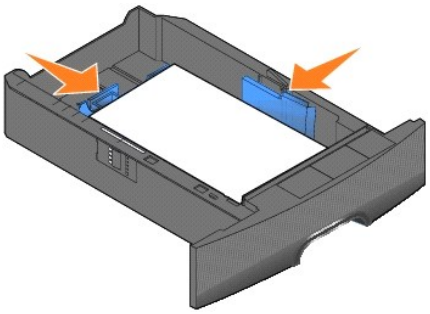
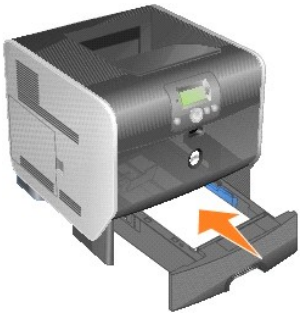
NOTE: Do not fill paper above the load line. Overfilling the tray may cause jams.



6. Squeeze the side guide tab, and slide the guide toward the inside of the tray until it lightly rests against the edge of the media.



7. Insert the tray into the printer.



Setting the Paper Type and Paper Size

After setting the **Paper Type** and **Paper Size** to the correct values for the type and size used in the trays, then any trays containing the same size and type are automatically linked by the printer.

NOTE: If the size of the media you are loading is the same size of the media previously loaded, do not change the Paper Size setting.

To change the **Paper Size** and **Paper Type** setting:

1. Make sure the printer is on.
2. Press the **Menu** button on the operator panel.
3. Press the **Down** arrow button until appears next to **Paper Menu**, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to **Paper Size/Type**, and then press the **Select** button .
5. Press the **Down** arrow button until appears next to the input source you want to use, and then press the **Select** button .
6. Press the **Down** arrow button until appears next to the paper size you want to use, and then press the **Select** button .
7. Press the **Down** arrow button until appears next to the paper type you want to use, and then press the **Select** button .

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This saves this setting as the new user default, and the printer returns to **Ready**.

Loading the Multipurpose Feeder

The multipurpose feeder can hold several sizes and types of print media, such as transparencies, postcards, note cards, and envelopes. It can be used for single-page or manual printing or as an additional tray.

NOTE: If you install an optional envelope feeder, you can still use the multipurpose feeder.

The multipurpose feeder can hold approximately:

- 100 sheets of 75 g/m2 (20 lb) paper
- 10 envelopes
- 75 transparencies

The multipurpose feeder accepts print media within the following dimensions:

- Width: 2.75 - 8.5 in. (69.85 - 215.9 mm)
- Length: 5 - 14 in. (127 - 355.6 mm)

The icons on the multipurpose feeder show you how to load the multipurpose feeder with paper, how to turn an envelope for printing, and how to load letterhead paper for simplex and duplex printing.

To load print media:

NOTE: Do not add or remove print media when the printer is printing from the multipurpose feeder or when the operator panel indicator light is blinking. Doing so may cause a jam.

1. Pull on the notch on the front of the printer to lower the multipurpose feeder.

2. Pull the tray extension out.

NOTE: *Do not* place objects on the multipurpose feeder. Also, avoid pressing down or applying excessive force on it.

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3. Slide the width guide to the far right.

4. Flex the sheets or envelopes back and forth to loosen them, then fan them. Do not fold or crease the print media. Straighten the edges on a level surface.

NOTE: Hold transparencies by the edges and avoid touching the print side. Fan the stack of transparencies to prevent jams. Be careful not to scratch or leave fingerprints on the transparencies.

Paper	
Transparencies	
Envelopes	

5. Load the media in the tray.

   Use the stack height label as a guide for stack height when loading print media.

NOTE: Load only one size and type of print media at a time in the multipurpose feeder. *Do not* mix sizes and types in the same tray.

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Loading paper, transparencies, or envelopes

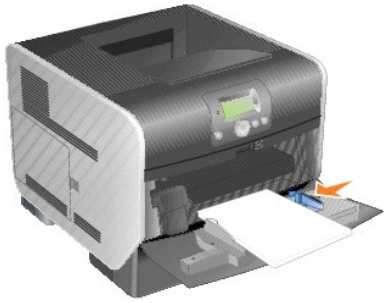
- Load paper or transparencies with the left edge of the stack against the stack height label and with the recommended print side face-up.
- Load envelopes flap side down with the stamp area and flap on the left. The end of the envelope with the stamp area enters the multipurpose feeder first.
- Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.

Loading letterhead or preprinted paper

- Do not fill paper above the load line. Overfilling the tray may cause jams.
- Follow the illustrations below for loading the paper according to your print job.

Print side face-up for *simplex* (single-sided) printing	Print side face-down for duplex printing

6. Slide the side guide toward the inside of the tray until it lightly rests against the edge of the media.



7. Set the **Paper Size** and **Paper Type** for the multipurpose feeder (**MP Feeder Size** and **MP Feeder Type**) to the correct value for the print media you loaded.
   a. Press the **Menu** button on the operator panel.
   b. Press the **Down** arrow button until appears next to **Paper Menu**, and then press the **Select** button .
   c. Press the **Down** arrow button until appears next to **Paper Size/Type**, and then press the **Select** button .
   d. Press the **Down** arrow button until appears next to **MP Feeder Size**/Type, and then press the **Select** button .
   e. Press the **Down** arrow button until appears next to the media size you loaded, and then press the **Select** button .
   f. Press the **Right** arrow button until appears next to **MP Feeder** Size/**Type**, and then press the **Select** button .
   g. Press the **Right** arrow button until appears next to the media type you loaded, and then press the **Select** button .

   The printer returns to Ready.

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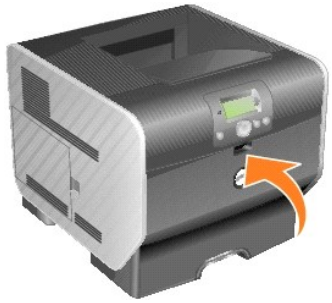
Closing the Multipurpose Feeder

1. Remove print media from the multipurpose feeder.

2. Push the extension tray in.

3. Close the multipurpose feeder



Loading the Envelope Feeder

The optional envelope feeder can accept a variety of envelope sizes. However, the envelope feeder must be adjusted correctly to ensure trouble-free printing.

To load the envelope feeder:

1. Adjust the envelope support for the length of envelope you are loading.
    - Fully closed (pushed in toward the printer) for short envelopes
    - Extended to the middle position for medium-length envelopes
    - Fully open (extended to its full length) for long envelopes

NOTICE: *Do not* place objects on the envelope feeder. Avoid pressing down on it or applying excessive force.

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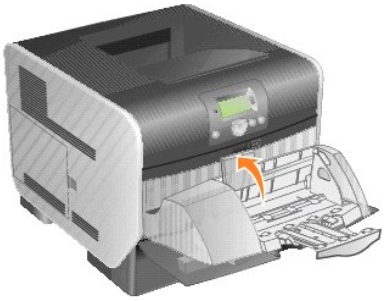
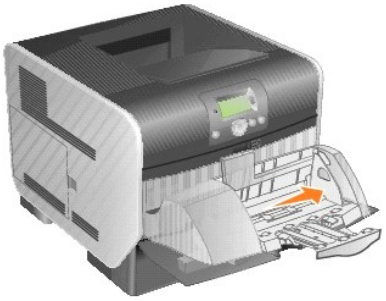
2. Lift the envelope weight back toward the printer. It stays in place.



3. Slide the width guide to the far right.



4. Flex a stack of envelopes back and forth, and then straighten the edges on a level surface. Press down the corners to flatten them.

   Fan the envelopes. This prevents the edges of the envelopes from sticking together and helps them feed properly.

5. Load the stack of envelopes flap side down with the stamp area and the flap on the left. The end of the envelopes with the stamp area enters the envelope feeder first.

   Let the envelopes at the bottom of the stack slide into the envelope feeder slightly more than the ones at the top of the stack.

NOTICE: Never use envelopes with stamps, clasps, snaps, windows, coated linings, or self-stick adhesives. These envelopes may severely damage the printer.

NOTE: When you load envelopes, do not exceed the maximum stack height. Use the stack height label as a guide for the correct stack height when loading. Do not try to load more envelopes than indicated by the stack height label; overloading can cause jams.

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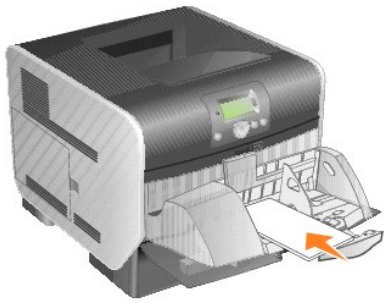
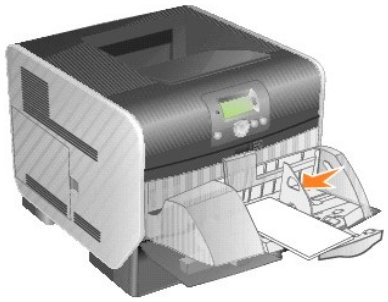
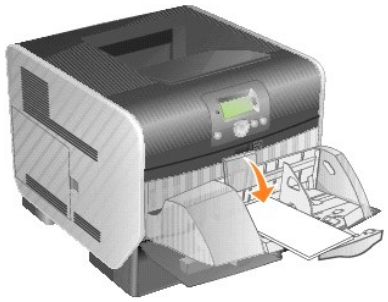


6. Slide the width guide to the left until it lightly touches the stack. Make sure the envelopes do not buckle.



7. Lower the envelope weight to touch the stack.



8. Set the **Paper Size** and **Paper Type** for the envelope feeder (envelope **Feeder Size** and envelope **Feeder Type**) to the correct value for the print media you loaded.
   a. Press the **Menu** button on the operator panel.
   b. Press the **Down** arrow button until appears next to **Paper Menu**, and then press the **Select** button .
   c. Press the **Down** arrow button until appears next to **Paper Size/Type**, and then press the **Select** button .
   d. Press the **Down** arrow button until appears next to **Envelope Feeder Size**/Type, and then press the **Select** button .
   e. Press the **Down** arrow button until appears next to the envelope size you loaded, and then press the **Select** button .
   f. Press the **Down** arrow button until appears next to **Envelope Feeder** Size/**Type**, and then press the **Select** button .
   g. Press the **Down** arrow button until appears next to the envelope type you loaded, and then press the **Select** button .

   The printer returns to **Ready**.

Linking Trays

Tray linking enables the automatic linking feature for trays when you load the same size and type of print media in multiple sources. The printer automatically links the trays; when one tray is empty, print media feeds from the next linked tray.

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For example, if you have the same size and type of print media loaded in tray 2 and tray 4, the printer selects print media from tray 2 until it becomes empty, and then the printer automatically feeds print media from the next linked tray — tray 4.

By linking all trays (standard and optional), you effectively create a single source with a capacity of up to 2,600 sheets.

Make sure you load the same size and type of print media in each tray in order to link the trays. Set the paper size and type for each tray.

To set the paper type or size:

1. Press the **Menu** button on the operator panel.
2. Press the **Down** arrow button until appears next to Paper Menu, and then press the **Select** button .
3. Press the **Down** arrow button until appears next to Paper Size/Type, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to Tray <x> Size/Type, and then press the **Select** button .
5. Press the **Down** arrow button until appears next to the paper size you loaded, and then press the **Select** button .
6. Press the **Down** arrow button until appears next to Tray <x> Size/Type, and then press the **Select** button .
7. Press the **Down** arrow button until appears next to the paper type you loaded, and then press the **Select** button .

   The printer returns to Ready.

To disable tray linking, set the **Paper Type** to a unique value in each one of the trays. If all the trays do not have the same type of print media when they are linked, you could mistakenly print a job on the wrong paper type.

Identifying and Linking Output Bins

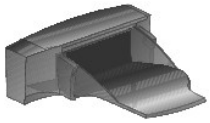
There is one standard output bin that holds 250 sheets. If you need additional output capacity, you can install up to three optional output expanders.

If you have multiple output bins, you can link them into a single output source. Linking output bins lets the printer automatically switch output to the next available bin.

Output bins available

The following table provides information on standard and optional output bin capability and connectivity.

NOTE: Not all output bins support every paper and envelope size.

Output Bin Name	Print Media	How Many Can Be Installed on the Printer?
Standard bin	ı 250 sheets (75 g/m2) of plain paper ı 300 transparencies ı 200 labels ı 50 envelopes (75 g/m2)	N/A — one is standard on the printer and located on top of the printer.
Output expander 	ı 650 sheets (75 g/m2) of plain paper ı 50 envelopes (75 g/m2)	3 For information on installing an output expander, see Installing an Output Expander.

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Linking output bins

Linking output bins lets you create a single output source so the printer can automatically switch output to the next available bin. You can also set the output type for media such as card stock or envelope sizes that cannot be sent to an optional output bin. For more information on the values available to configure your output bins, see Understanding the Operator Panel Menus.

NOTE: The bin sequence for linking always starts with the Standard Bin and proceeds from the bin nearest to the floor to the bin farthest from the floor.

To link output bins:

1. Press the **Menu** button on the operator panel.
2. Press the **Down** arrow button until appears next to **Paper Menu**, and then press the **Select** button .
3. Press the **Down** arrow button until appears next to **Bin Setup**, and then press the **Select** button .
4. Press the **Down** arrow button until appears next to **Configure Bins**, and then press the **Select** button .
5. Press the **Down** arrow button until appears next to **Link**, and then press the **Select** button .

   The printer returns to **Ready**.

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Regulatory Notices

- FCC Notices (U.S. Only)
- IC Notice (Canada Only)
- CE Notice (European Union)
- CE Mark Notice
- Simplified Chinese Class A Warning Notice (China Only)
- EN 55022 Compliance (Czech Republic Only)
- VCCI Notice (Japan Only)
- Polish Center for Testing and Certification Notice
- BSMI Notice (Taiwan Only)
- NOM Information (Mexico Only)
- ENERGY STAR® Compliance
- Waste Electrical and Electronic Equipment (WEEE) Directive
- Regulatory Notices for Wireless Option

Electromagnetic Interference (EMI) is any signal or emission, radiated in free space or conducted along power or signal leads, that endangers the functioning of a radio navigation or other safety service or seriously degrades, obstructs, or repeatedly interrupts a licensed radio communications service. Radio communications services include but are not limited to AM/FM commercial broadcast, television, cellular services, radar, air-traffic control, pager, and Personal Communication Services (PCS). These licensed services, along with unintentional radiators such as digital devices, contribute to the electromagnetic environment.

Electromagnetic Compatibility (EMC) is the ability of items of electronic equipment to function properly together in the electronic environment. While this device has been designed and determined to be compliant with regulatory agency limits for EMI, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference with radio communications services, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the device with respect to the receiver.
- Move the device away from the receiver.
- Plug the device into a different outlet so that the device and the receiver are on different branch circuits.

If necessary, consult a Dell Technical Support representative or an experienced radio/television technician for additional suggestions.

Dell™ devices are designed, tested, and classified for their intended electromagnetic environment. These electromagnetic environment classifications generally refer to the following harmonized definitions:

- Class A is typically for business or industrial environments.
- Class B is typically for residential environments.

Information Technology Equipment (ITE), including devices, expansion cards, printers, input/output (I/O) devices, monitors, and so on, that are integrated into or connected to the computer should match the electromagnetic environment classification of the computer.

A Notice About Shielded Signal Cables: Use only shielded cables for connecting devices to any Dell device to reduce the possibility of interference with radio communications services. Using shielded cables ensures that you maintain the appropriate EMC classification for the intended environment. Cables are available from Dell at www.dell.com.

Most Dell devices are classified for Class B environments. However, the inclusion of certain options can change the rating of some configurations to Class A. To determine the electromagnetic classification for your device, see the following sections specific for each regulatory agency. Each section provides country-specific EMC/EMI or product safety information.

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FCC Notices (U.S. Only)

Most Dell devices are classified by the Federal Communications Commission (FCC) as Class B digital devices. To determine which classification applies to your device, examine all FCC registration labels located on the bottom, side, or back panel of your device, on card-mounting brackets, and on the cards themselves. If any one of the labels carries a Class A rating, your entire device is considered to be a Class A digital device. If *all* labels carry an FCC Class B rating as distinguished by either an FCC ID number or the FCC logo, ( ), your device is considered to be a Class B digital device.

Once you have determined your device's FCC classification, read the appropriate FCC notice. Note that FCC regulations provide that changes or modifications not expressly approved by Dell could void your authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Class A

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause harmful interference with radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case you will be required to correct the interference at your own expense.

Class B

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the manufacturer's instruction manual, may cause interference with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

FCC Identification Information

The following information is provided on the device or devices covered in this document in compliance with FCC regulations:

- Model number: 5210n / 5310n
- Company name:

  Dell Inc.
  One Dell Way
  Round Rock, Texas 78682 USA
  512-338-4400

IC Notice (Canada Only)

Most Dell devices are classified by the Industry Canada (IC) Interference-Causing Equipment Standard #3 (ICES-003) as Class B digital devices. To determine which classification (Class A or B) applies to your device, examine all registration labels located on the bottom, side, or the back panel of your device. A statement in the form of "IC Class A ICES-003" or "IC Class B ICES-003" will be located on one of these labels. Note that Industry Canada regulations provide that changes or modifications not expressly approved by Dell could void your authority to operate this equipment.

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This Class B (or Class A, if so indicated on the registration label) digital apparatus meets the requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la Classe B (ou Classe A, si ainsi indiqué sur l'étiquette d'enregistration) respecte toutes les exigences du Reglement sur le Materiel Brouilleur du Canada.

CE Notice (European Union)

Marking by the symbol CE indicates compliance of this Dell device to the EMC Directive 89/336/EEC and the Low Voltage Directive 73/23/EEC of the European Union. Such marking is indicative that this Dell device meets the following technical standards:

- EN 55022 — "Information Technology Equipment — Radio Disturbance Characteristics — Limits and Methods of Measurement."
- EN 55024 — "Information Technology Equipment - Immunity Characteristics - Limits and Methods of Measurement."
- EN 61000-3-2 — "Electromagnetic Compatibility (EMC) - Part 3: Limits - Section 2: Limits for Harmonic Current Emissions (Equipment Input Current Up to and Including 16 A Per Phase)."
- EN 61000-3-3 — "Electromagnetic Compatibility (EMC) - Part 3: Limits - Section 3: Limitation of Voltage Fluctuations and Flicker in Low-Voltage Supply Systems for Equipment With Rated Current Up to and Including 16 A."
- EN 60950-1 — "Safety of Information Technology Equipment."
- EN 60825-1 - "Safety of Laser Products."

NOTE: EN 55022 emissions requirements provide for two classifications:

- Class A is for typical commercial areas.
- Class B is for typical domestic areas.

To determine which classification applies to your device, examine the FCC or ICES information on the regulatory label located on the back, side, or bottom panel of the device. If the FCC or ICES information on the label indicates a Class A rating, the following Class A warning applies to your device:

RF INTERFERENCE WARNING: This is a Class A product. In a domestic environment this product may cause radio frequency (RF) interference, in which case the user may be required to take adequate measures.

If the FCC or ICES information on the label indicates a Class B rating, the following Class B statement applies to your device:

This Dell device is classified for use in a typical Class B domestic environment.

A "Declaration of Conformity" in accordance with the preceding directives and standards has been made and is on file at Dell Inc. Products Europe BV, Limerick, Ireland.

CE Mark Notice

This equipment complies with the essential requirements of the European Union Directive 1999/5/EC.

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Cet équipement est conforme aux principales caractéristiques définies dans la Directive européenne RTTE 1999/5/CE.

Die Geräte erfüllen die grundlegenden Anforderungen der RTTE-Richtlinie (1999/5/EG).

Questa apparecchiatura é conforme ai requisiti essenziali della Direttiva Europea R&TTE 1999/5/CE.

Este equipo cumple los requisitos principales de la Directiva 1999/5/CE de la UE, "Equipos de Terminales de Radio y Telecomunicaciones".

Este equipamento cumpre os requisitos essenciais da Directiva 1999/5/CE do Parlamento Europeu e do Conselho (Directiva RTT).

Ο εξοπλισμός αυτός πληροί τις βασικές απαιτήσεις της κοινοτικής οδηγίας EU R&TTE 1999/5/ΕΚ.

Deze apparatuur voldoet aan de noodzakelijke vereisten van EU-richtlijn betreffende radioapparatuur en telecommunicatie-eindapparatuur 1999/5/EG.

Dette udstyr opfylder de Væsentlige krav i EU's direktiv 1999/5/EC om Radio- og teleterminaludstyr.

Dette utstyret er i overensstemmelse med hovedkravene i R&TTE-direktivet (1999/5/EC) fra EU.

Utrustningen uppfyller kraven för EU-direktivet 1999/5/EC om ansluten teleutrustning och ömsesidigt erkännande av utrustningens överensstämmelse (R&TTE).

Tämä laite vastaa EU:n radio- ja telepäätelaitedirektiivin (EU R&TTE Directive 1999/5/EC) vaatimuksia.

Simplified Chinese Class A Warning Notice (China Only)

On Class A systems, the following warning will appear near the regulatory label:

Warning: This is a Class A product. In a domestic environment this product may cause radio interference, in which case the user may be required to take adequate measures.

声明

此为A级产品，在生活环境中， 该产品可能会造成无线电干扰。 在这种情况下，可能需要用户对其干扰采取切实可行的措施。

EN 55022 Compliance (Czech Republic Only)

This device belongs to Class B devices as described in EN 55022, unless it is specifically stated that it is a Class A device on the specification label. The following applies to devices in Class A of EN 55022 (radius of protection up to 30 meters). The user of the device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

Pokud není na typovém štítku počítače uvedeno, že spadá do třídy A podle EN 55022, spadá automatickz do třídy B podle EN 55022. Pro zařízení zařazená do třídy A (ochranné pásmo 30m) podle EN 55022 platí následující. Dojde-li k rušení telekomunikačních nebo jinych zařízení, je uživatel povinen provést taková opatření, aby rušení odstranil.

VCCI Notice (Japan Only)

Most Dell devices are classified by the Voluntary Control Council for Interference (VCCI) as Class B information technology equipment (ITE). However, the inclusion of certain options can change the rating of some configurations to Class A. ITE, including devices, expansion cards, printers, input/output (I/O) devices, monitors, and so on, integrated into or connected to the device should match the electromagnetic environment classification (Class A or B) of the device.

To determine which classification applies to your device, examine the regulatory labels/markings located on the bottom, side, or back panel of your device. Once you have determined your device's VCCI classification, read the appropriate VCCI notice (see "VCCI Class A ITE Regulatory Mark" or "VCCI Class B ITE Regulatory Mark").

Class A ITE

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラス A 情報技術装置です。
この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

VCCI Class A ITE Regulatory Mark

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If the regulatory label includes the following marking, your device is a Class A product: VCCI

Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラス B 情報技術装置です。
この装置は家庭環境で使用することを目的としていますが、ラジオやテレビジョン受信機に近接して使用
されると、受信障害を引き起こすことがあります。取扱説明書に従って正しい取り扱いをしてください。

This is a Class B product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

VCCI Class B ITE Regulatory Mark

If the regulatory label includes the following marking, your device is a Class B product:

Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a 3-prong socket). All equipment that works together (computer, monitor, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standard PN-EN 55022.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem).
Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę kabla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne. Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w *PN-EN 60950:2000 i PN-EN 55022:2000*.

Jezeli na tablicze znamionowej umieszczono informacje, ze urzadzenie jest klasy A, to oznacza, ze urzadzenie w srodowisku mieszkalnym moze powodowac zaklócenia radioelektryczne. W takich przypadkach mozna zadac od jego uzytkownika zastosowania odpowiednich srodków zaradczych.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.
- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniowego źródła zasilania.
- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.
- Nie należy rozlewać napojów ani innych płynów na system komputerowy.
- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.
- System komputerowy powinien znajdować się z dala od grzejników i źródel ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

BSMI Notice (Taiwan Only)

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If you find a or mark on the regulatory label on the bottom, side, or back panel of your device, the following section is applicable:

BSMI通告（僅限於台灣）

大多數的 Dell 電腦系統被 BSMI（經濟部標準檢驗局）劃分爲乙類數位裝置。但是，使用某些選件會使有些組態的等級變成甲類。若要確定您的電腦系統適用等級，請檢查所有位於電腦底部或背面板、擴充卡安裝托架，以及擴充卡上的 BSMI 註冊標籤。如果其中有一甲類標籤，即表示您的系統爲甲類數位裝置。如果只有 BSMI 的檢磁號碼標籤，則表示您的系統爲乙類數位裝置。

一旦確定了系統的 BSMI 等級，請閱讀相關的 BSMI 通告。請注意，BSMI通告規定凡是未經 Dell Inc. 明確批准的擅自變更或修改，將導致您失去此設備的使用權。

此裝置符合 BSMI（經濟部標準檢驗局）的規定，使用時須符合以下兩項條件：

- 此裝置不會產生有害干擾。
- 此裝置必須能接受所接收到的干擾，包括可能導致無法正常作業的干擾。

甲類

此設備經測試證明符合 BSMI（經濟部標準檢驗局）之甲類數位裝置的限制規定。這些限制的目的是爲了在商業環境中使用此設備時，能提供合理的保護以防止有害的干擾。此設備會產生、使用並散發射頻能量；如果未遵照製造廠商的指導手冊來安裝和使用，可能會干擾無線電通訊。請勿在住宅區使用此設備。

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，
在這種情況下，使用者會被要求采取某些適當的對策。

乙類

此設備經測試證明符合 BSMI（經濟部標準檢驗局）之乙類數位裝置的限制規定。這些限制的目的是爲了在住宅區安裝時，能防止有害的干擾，提供合理的保護。此設備會產生、使用並散發射頻能量；如果未遵照製造廠商的指導手冊來安裝和使用，可能會干擾無線電通訊。但是，這並不保證在個別的安裝中不會產生干擾。您可以透過關閉和開啓此設備來判斷它是否會對廣播和電視收訊造成干擾；如果確實如此，我們建議您嘗試以下列一種或多種方法來排除干擾：

- 重新調整天線的接收方向或重新放置接收天線。
- 增加設備與接收器的距離。
- 將設備連接至不同的插座，使設備與接收器連接在不同的電路上。
- 請向經銷商或有經驗的無線電／電視技術人員查詢，以獲得幫助。

NOM Information (Mexico Only)

The following information is provided on the device(s) described in this document in compliance with the requirements of the official Mexican standards (NOM):

Exporter:	Dell Inc. One Dell Way Round Rock, TX 78682
Importer:	Dell Computer de México, S.A. de C.V. Paseo de la Reforma 2620 - 11° Piso Col. Lomas Altas 11950 México, D.F.
Ship to:	Dell Computer de México, S.A. de C.V. al Cuidado de Kuehne & Nagel de México S. de R.L. Avenida Soles No. 55 Col. Peñon de los Baños 15520 México, D.F.
Model number:	5210n / 5310n
Supply voltage:	110-127 V
Frequency:	50/60 Hz
Current consumption:	7.2 A / 8.0 A
Output voltage:	50 VDC / 50 VDC
Output current:	5.3 A / 6.7 A

ENERGY STAR® Compliance

Any Dell product bearing the ENERGY STAR® emblem on the product or on a start-up screen is certified to comply with Environmental Protection Agency (EPA) ENERGY STAR® requirements as configured when shipped by Dell.

ENERGY STAR® Emblem

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The EPA's ENERGY STAR® program is a joint effort between the EPA and manufacturers to reduce air pollution by promoting energy-efficient products.

You can help reduce electricity usage and its side effects by turning off your product when it is not in use for extended periods of time, particularly at night and on weekends.

Waste Electrical and Electronic Equipment (WEEE) Directive

In the European Union, this label indicates that this product should not be disposed of with household waste. It should be deposited at an appropriate facility to enable recovery and recycling. For information on how to recycle this product responsibly in your country, please visit: www.euro.dell.com/recycling.

Směrnice o odpadních elektrických a elektronických zařízeních (WEEE)

V Evropské unii tento štítek oznamuje, že by tento produkt neměl být likvidován spolu s běžným komunálním odpadem. Je třeba jej odnést do příslušného zařízení, aby bylo možné jej renovovat a recyklovat. Informace o zodpovědném způsobu recyklace tohoto produktu ve své zemi naleznete na adrese: www.euro.dell.com/recycling.

WEEE-direktiv (Waste from Electrical and Electronic Equipment)

I EU angiver denne etiket, at dette produk ikke må kasseres med det normale affald. Det skal deponeres på et dertil indrettet sted, så det kan genbruges. Du kan få flere oplysninger om, hvordan du genbruger dette produkt, ved at besøge: www.euro.dell.com/recycling.

Richtlijn WEEE, afdanken van elektrische en elektronische apparaten

In de Europese Unie geeft dit label aan dit product niet via huishoudelijk afval mag worden afgedankt. Het moet gedeponeerd worden bij een daarvoor geschikte voorziening zodat recuperatie en recyclage mogelijk zijn. Raadpleeg voor informatie over de milieuvriendelijke wijze van recyclage van dit product in uw land: www.euro.dell.com/recycling.

WEEE-direktiivi käytöstä poistettujen laitteiden hävittämisestä

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Euroopan unionissa tämä merkintä kertoo, että tuote tulee hävittää kotitalousjätteen mukana.. Se tulee hävittää niin, että se voidaan noutaa ja siirtää kierrätykseen. Lisätietoja tämän tuotteen kierrättämisestä maassasi on osoitteessa www.euro.dell.com/recycling.

Directive WEEE (Waste from Electrical and Electronic Equipment, Déchets des équipements électroniques et électriques)

Dans l'Union européenne, cette étiquette indique que ce produit ne doit pas être mis au rebut avec les déchets ménagers. Il doit être déposé dans un endroit se chargeant de sa récupération et de son recyclage. Pour obtenir des informations sur le recyclage responsable de ce produit dans votre pays, visitez le site www.euro.dell.com/recycling.

WEEE-Richtlinie (Waste from Electrical and Electronic Equipment = Elektronikschrottverordnung)

In der EU wird mit diesem Etikett angegeben, dass dieses Gerät nicht zusammen mit dem Haushaltabfall zu entsorgen ist. Das Gerät sollte in einer entsprechenden Recycling-Einrichtung entsorgt werden. Informationen zum Recyceln dieses Geräts in Ihrem Land finden Sie unter: www.euro.dell.com/recycling.

Direttiva WEEE (Waste from Electrical and Electronic Equipment)

Nell'Unione Europea, questa etichetta indica che il prodotto non deve essere smaltito insieme ai rifiuti solidi urbani ma va depositato in appositi impianti per il trattamento e il riciclaggio. Per informazioni sulle normative che regola il riciclaggio del prodotto nei diversi paesi, visitare il sito Web www.euro.dell.com/recycling.

廃電気電子機器指令（WEEE）

欧州連合において、このラベルは、この製品が生活ごみとして廃棄できないことを表します。この製品は、復元やリサイクルのために、適切な施設で処理する必要があります。この製品をリサイクルする方法については、以下のホームページで国別の手順を参照してください。www.euro.dell.com/recycling

WEEE-direktiv (Waste Electrical and Electronic Equipment)

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I EU betyr denne etiketten at dette produktet ikke skal kastes sammen med husholdningsavfall. Det bør leveres til et godkjent avfallsanlegg, slik at det kan gjenopprettes og resirkuleres. Hvis du vil ha informasjon om hvordan du kan resirkulere dette produktet på riktig måte i ditt land, kan du gå til: www.euro.dell.com/recycling.

Dyrektywa WEEE dotycząca zużytego sprzętu elektrycznego i elektronicznego

W Unii Europejskiej etykieta ta oznacza, że produktu nie należy wyrzucać wraz z domowymi odpadkami. Produkt powinien zostać przekazany do właściwej firmy usługowej, gdzie będzie możliwa jego utylizacja. Informacje, w jaki sposób odpowiedzialnie zutylizować produkt w danym kraju można znaleźć na stronie internetowej: www.euro.dell.com/recycling.

Directiva sobre desperdício de equipamento eléctrico e electrónico (WEEE - Waste Electrical and Electronic Equipment)

Na União Europeia, esta etiqueta indica que este produto não deve ser eliminado juntamente com o lixo doméstico. Este produto deve ser depositado numa instalação adequada para ser recuperado e reciclado. Para obter informações sobre como reciclar este produto no seu país, visite: www.euro.dell.com/recycling.

Инструкция по обращению с отходами электротехнического и электронного оборудования (WEEE)

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Directiva sobre desecho de equipos eléctricos y electrónicos (WEEE)

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Software Overview

- Dell™ Toner Management System
- Set IP Address Utility
- Dell Printer Software Uninstall
- Driver Profiler
- Dell Printer Configuration Web Tool

Use the *Drivers and Utilities* CD that came with your printer to install a combination of software applications, depending on your operating system.

NOTE: These software applications are not available with Linux or Macintosh.

Dell™ Toner Management System

Status Monitor Center

NOTE: This application is not available with Windows 98 SE or Me, or when the printer is connected locally to a computer.

Use the Status Monitor Center to manage multiple Status Monitors.

- Double-click a printer name to open its Status Monitor, or select **Run** to open a Status Monitor for a particular printer.
- Select **View** to change the appearance of the list of printers.
- Select **Help** to read the online Help.

Printing Status Window

NOTE: This application is not available with Windows NT, 98 SE, or Me, or when the printer is connected to a network.

The Printing Status window displays the status of the printer (Printer Ready, Printer Offline, and Error-Check Printer) and the name of the job when you send a job to print.

The Printing Status window also displays the level of toner so you can:

- Monitor the toner level for your printer.
- Click **Order Toner** to order replacement toner cartridges.
  See Dell Printer Supplies Reorder Application for more information.

Dell Printer Supplies Reorder Application

NOTE: This application is not available with Windows 98 SE or Me.

The Order Supplies dialog box can be launched from the Printing Status window, the Programs window, or the desktop icon.

You can order toner by phone or from the Web.

1. Click **Start→Programs** or **All Programs→Dell Printers→Dell Laser Printer 5210n / 5310n→Printer Supplies Reorder Application**.
   The Order Supplies window appears.
2. If ordering from the Web, click **Visit Dell's cartridge ordering web site.**
3. If ordering by phone, call the number that appears under the By Telephone heading.

Set IP Address Utility

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NOTE: This application is not available when the printer is connected locally to a computer.

The Set IP Address Utility lets you set up an IP address and other important IP parameters. To set the IP Address manually:

1. Launch the **Dell Printer Configuration Web Tool** by typing your network printer's IP address in your Web browser.
2. Click **Printer Settings**.
3. Under **Printer Server Settings**, click **TCP/IP**.
4. Enter the **IP Address** as well as the **Netmask** and **Gateway** settings.

NOTE: If you do not know these settings, see your network administrator.

5. Click **Submit**.
6. Enter the new IP address in your browser to continue using the **Dell Printer Configuration Web Tool**.

Dell Printer Software Uninstall

Use the Uninstall Software Utility to remove any currently installed printer software or printer objects. You can access the Uninstall Software Utility two ways:

1. *In Windows XP*, click **Start→Control Panel→Printers and Other Hardware→Printers and Faxes**.

   In all others, click **Start→Settings→Printers**.

   a. Select the printer object to uninstall, and then right-click the mouse.
   b. Select **Dell Software Uninstall**.
   c. Select the components to uninstall, and then click **Next**.
   d. Click **Uninstall Now**.
   e. Click **OK** when the uninstall is complete.

- Click **Start→Programs** or **All Programs→Dell Printers→Dell Laser Printer 5210n / 5310n**.

  a. Select **Dell Printer Software Uninstall**.
  b. Select the components to uninstall, and then click **Next**.
  c. Click **Uninstall Now**.
  d. Click **OK** when the uninstall is complete.

Driver Profiler

Use the Driver Profiler to create driver profiles that contain custom driver settings. A driver profile can contain a group of saved printer driver settings and other data for things such as:

- Print orientation and N-Up (document settings)
- Installation status of an output tray (printer options)
- User-defined paper sizes (custom papers)
- Simple text and watermarks
- Overlay references
- Font references
- Form associations

Dell Printer Configuration Web Tool

NOTE: This application is not available when the printer is connected locally to a computer.

Have you ever sent a print job to the network printer down the hall, only to find it didn't print because of a paper jam or an empty paper tray? One of the features of the Dell Printer Configuration Web Tool is the Email Alert Setup, which sends you, or the key operator, an email when the printer needs supplies or intervention.

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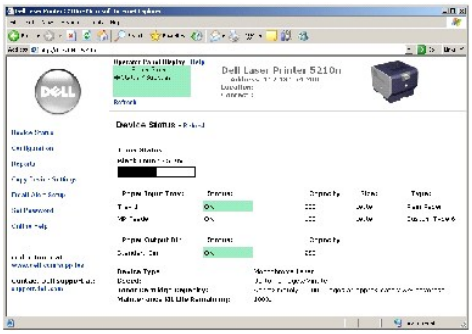
If you fill out printer inventory reports requiring the asset tag number of all of the printers in your area, the Dell Printer Configuration Web Tool has a Printer Information feature that makes it easy. Just type the IP address of each printer on the network to display the asset tag number.



The Dell Printer Configuration Web Tool feature also lets you change printer settings and keep track of printing trends. If you are a network administrator, you can easily copy the printer's settings to one or all printers on the network – right from your Web browser.

To launch the Dell Printer Configuration Web Tool, just type your network printer's IP address in your Web browser.

If you do not know what your printer's IP address is, print a network setup page, which lists the IP address.

To print a network setup page:

1. Press the **Menu** button on the operator panel.
2. Press the **Down** arrow button until appears next to **Reports**, and then press the **Select** button .
3. Press the **Down** arrow button until appears next to **Network Setup Page**, and then press the **Select** button .

To assign an IP address, see Set IP Address Utility.

Use the Dell Printer Configuration Web Tool for:

Printer Status

Get immediate feedback on printer supply status. When toner is running low, click the toner supplies link on the first screen to order additional toner cartridges.

Printer Settings

Change printer settings, view the operator panel remotely, and update the print server firmware.

Copy Printer Settings

Quickly clone the printer's settings to another printer or printers on the network just by typing each printer's IP address.

NOTE: You must be a network administrator to use this feature.

Printing Statistics

Keep track of printing trends, such as paper usage and types of jobs being printed.

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Printer Information

Get the information you need for service calls, inventory reports, or the status of current memory and engine code levels.

Email Alert Setup

Receive an email when the printer needs supplies or intervention. Type your name or the key operator's name in the email list box to be notified.

Set Password

Lock the operator panel with a password so that other users don't inadvertently change the printer settings you selected.

NOTE: You must be a network administrator to use this feature.

Online Help

Click **Help** to visit the Dell website for printer troubleshooting.

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Troubleshooting

- Understanding Printer Messages
- Checking an Unresponsive Printer
- Solving Printing Problems
- Solving Option Problems
- Solving Paper Feed Problems
- Solving Print Quality Problems

Understanding Printer Messages

The printer displays three types of messages: status messages, attendance messages, and service messages. Status messages provide information about the current state of the printer. They require no action on your part. Attendance messages alert you to printer problems that require your intervention. Service messages also alert you to problems that require intervention. However, the printer will stop printing, and the errors are non-recoverable. It may be possible to power the printer off and back on to temporarily recover from the service message error condition. For more information about printer messages, see Understanding the Operator Panel Messages.

Checking an Unresponsive Printer

If the printer is not responding, first make sure:

- The power cord is plugged into the printer and a properly grounded electrical outlet.
- The electrical outlet is not turned off by any switch or breaker.
- The printer is not plugged into any surge protectors, uninterrupted power supplies, or extension cords.
- Other electrical equipment plugged into the outlet is working.
- The printer is turned on.
- The printer cable is securely attached to the printer and the host computer, print server, option, or other network device.

Once you have checked each of these possibilities, turn the printer off and back on. This often fixes the problem.

Solving Printing Problems

The operator panel display is blank or displays only diamonds. The printer self test failed. Turn the printer off, wait about 10 seconds, and turn the printer back on. If the **Ready** message does not appear, turn the printer off, and call for service.
Jobs do not print. - The printer is not ready to receive data. Make sure **Ready** or **Power Saver** appears on the display before sending a job to print. Press the **Select** button to return the printer to the **Ready** state. - The specified output bin is full. Remove the stack of paper from the output bin, and then press the **Select** button . - The specified tray is empty. Load paper in the tray.

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- You are using the wrong printer driver or are printing to a file.
  - Verify you are using the printer driver associated with the printer.
  - If you are using a USB port, make sure you are running Windows XP Professional x64, Windows XP, Windows Server 2003, Windows 2000, or Windows 98/Me and using a Windows XP, Windows Server 2003, Windows 2000, or Windows 98/Me compatible printer driver.
- Your print server is not set up properly or is not connected properly.

  Verify that you have properly configured the printer for network printing.

- You are using the wrong interface cable, or the cable is not securely connected.

  Make sure you are using a recommended interface cable, and make sure the connection is secure.

Held jobs do not print.

- A formatting error has occurred, or the printer has insufficient memory.
  - Print the job. (Only part of the job may print.)
  - Delete the job.
  - Free up additional printer memory by scrolling through the list of held jobs and deleting others you have sent to the printer.
- The printer has received invalid data.

  Delete the job.

Multi-language PDFs do not print.

The documents contain unavailable fonts.

1. Open the document you want to print in Adobe Reader.
2. Click the printer icon.

   The **Print** dialog appears.

3. Check the **Print as image** box.
4. Click **OK**.

Job takes longer than expected to print.

- The job is too complex.

  Reduce the complexity of your print job by eliminating the number and size of fonts, the number and complexity of images, and the number of pages in the job.

- **Page Protect** is set to **On**.

  Set **Page Protect** to **Off** from the **Setup Menu**. For more information, see Understanding the Operator Panel Menus.

Job prints from the wrong tray or on the wrong paper or specialty media.

The operator panel menu settings do not match the media loaded in the tray. Make sure the **Paper Size** and **Paper Type** specified in the printer driver match the paper size and type in the tray.

Incorrect characters print.

- You are using an incompatible parallel cable.

  If you are using a parallel interface, make sure you are using an IEEE 1284-compliant parallel cable.

- The printer is in Hex Trace mode.

  If **Ready Hex** appears on the display, you must exit **Hex Trace** mode before you can print your job. Turn the printer off and back on to exit **Hex Trace** mode.

Tray linking does not work.

- Make sure both the size and type of media are the same in both trays.
- Make sure the paper guides in the trays are set for the correct size media.
- Make sure the menu values for both size and type are set correctly in the **Paper Menu**.
- For more information, see Linking Trays, or see Understanding the Operator Panel Menus.

Large jobs do not collate.

- Collate is not set to On.

  Set **Collation** to On in the **Finishing Menu** or through the printer driver. For more information, see Understanding the Operator Panel Menus.

NOTE: Setting **Collation** to Off in the driver overrides the setting in the **Finishing Menu**.

- The job is too complex.

  Reduce the complexity of the print job by eliminating the number and size of fonts, the number and complexity of images, and the number of pages in the job.

- The printer does not have enough memory.

  Add printer memory or an optional hard disk.

Unexpected page breaks occur.

The job has timed out. Set **Print Timeout** to a higher value from the **Setup Menu**. For more information, see Understanding the Operator Panel Menus.

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Solving Option Problems

If an option does not operate correctly after it is installed or if it quits working:

- Turn the printer off, wait for about 10 seconds, and turn the printer on. If this does not fix the problem, unplug the printer, and check the connection between the option and printer.
- Print the menu settings page, and check to see if the option is listed in the Installed Options list. If the option is not listed, reinstall it. See Printing the Menu Settings Page for more information.
- Make sure the option is selected in the software application you are using.

The following table lists printer options and suggested corrective actions for related problems. If the suggested corrective action does not fix the problem, call your service representative.

Paper Trays - Make sure the connection between drawers (250-sheet tray or 500-sheet tray) or the connection between a drawer and a duplex unit or the printer is secure. - Make sure the print media is loaded correctly. See Loading Standard Trays and Optional Trays for more details.
Duplex unit - Make sure the connection between the duplex unit and the printer is secure. If the duplex unit is listed on the menu settings page, but print media jams when it enters or exits the duplex unit, the printer and duplex unit may not be properly aligned. - Make sure the duplex front access cover is securely installed.
Envelope feeder - Make sure the connection between the envelope feeder and the printer is secure. - Make sure the **Paper Size** setting is correct in both the **Paper Menu** and in the software application. - Make sure the envelopes are loaded correctly. See Loading the Envelope Feeder for more details.
Flash memory Make sure flash memory is securely connected to the printer system board.
Internal print server - Make sure the internal print server (also called an internal network adapter or INA) is securely connected to the printer system board. - Make sure you are using the correct cable, that it is securely connected, and that the network software is correctly set up. See the *Drivers and Utilities* CD that shipped with the printer for more details.
Output expander Make sure the connection between each output expander or the connection between the output expander and the printer is secure. If the output expander is listed on the menu settings page, but print media jams when it exits the printer and enters the output expander, it may not be properly installed. Reinstall each output expander.
Printer memory Make sure printer memory is securely connected to the printer system board.

Solving Paper Feed Problems

Paper frequently jams. - You are using paper that does not meet the printer specifications. Use recommended paper and other specialty media. See Avoiding Jams for information that can help prevent jams from occurring. - You have loaded too much paper or too many envelopes. Make sure the stack of paper you load does not exceed the maximum stack height indicated in the tray or on the multipurpose feeder. - Guides in the selected tray are not set to the appropriate position for the size paper loaded. Move the guides in the tray to the correct position. - The paper has absorbed moisture due to high humidity. Load paper from a fresh package. Store paper in its original wrapper until you load it. See Storing Print Media for more information.

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- The pick rolls may be worn.

  Replace the pick rolls. See Replacing the Pick Rollers for more information.

The Paper Jam message remains after you remove the jammed paper.

You have not pressed **Go** or have not cleared the entire paper path. Clear paper from the entire paper path, and then press the **Select** button . See Clearing Jams for more information.

The page that jammed does not reprint after you clear the jam.

Jam Recovery in the **Setup menu** is set to **Off**. Set **Jam Recovery** to **Auto** or **On**. See Understanding the Operator Panel Menus for more information.

Blank pages feed into the output bin.

An incorrect media type is loaded in the tray being printed from. Load the correct type media for your print job, or change the **Paper Type** to match the type of media loaded. See Understanding the Operator Panel Menus for more information.

Solving Print Quality Problems

The information in the following table may help you solve print quality problems. If these suggestions do not correct the problem, call for service. You may have a printer part that requires adjustment or replacement.

Print is too light.

- The toner may be low. To utilize the remaining toner, remove the cartridge by gripping the handles with both hands. With the cartridge arrows pointing downward, thoroughly shake the print cartridge side-to-side and front-to-back several times to redistribute the toner.

  Reinstall the cartridge, and then press the **Select** button . Repeat this procedure multiple times until the print remains faded. When the print remains faded, replace the print cartridge. For more information, see Replacing the Toner Cartridge.
- Change the **Toner Darkness** setting in the **Quality** menu.
- Change the **Brightness** setting in the **Quality** menu.
- Change the **Contrast** setting in the **Quality** menu.
- If you are printing on an uneven print surface, change the **Paper Weight** and **Paper Texture** settings in the **Paper menu**.
- Verify the correct print media is being used.

Toner smears or print comes off the page.

- If you are printing on an uneven print surface, change the **Paper Weight** and **Paper Texture** settings in the **Paper menu**.
- Verify the print media is within the printer specifications. See Understanding Paper and Specialty Media Guidelines for more details.

If the problem continues, turn the printer off, and contact the place where you bought the printer.

Toner appears on the back of the printed page.

Toner is on the transfer roll. To help prevent this, do not load print media that is smaller than the page size of the job to be printed.

Open and close the printer top front cover to run the printer setup cycle and clean the transfer roll.

Toner fog or background shading appears on the page.

- Check the print cartridge to make sure it is installed correctly.
- Replace the print cartridge.

Entire page is white.

- Make sure the packaging material is removed from the print cartridge.
- Check the print cartridge to be sure it is installed correctly.
- The toner may be low. To utilize the remaining toner, remove the cartridge by gripping the handles with both hands. With the cartridge arrows pointing downward, thoroughly shake the print cartridge side-to-side and front-to-back several times to redistribute the toner.

  Reinstall the cartridge, and then press the **Select** button . Repeat this procedure multiple times until the print remains faded. When the print remains faded, replace the print cartridge. For more information, see Replacing the Toner Cartridge.

Streaks appear on the page.

- The toner may be low. To utilize the remaining toner, remove the cartridge by gripping the handles with both hands. With the cartridge arrows pointing downward, thoroughly shake the print cartridge side-to-side and front-to-back several times to redistribute the toner.

  Reinstall the cartridge, and then press the **Select** button . Repeat this procedure multiple times until the print remains faded. When the print remains faded, replace the print cartridge. For more information, see Replacing the Toner Cartridge.
- If you are using preprinted forms, make sure the ink can withstand temperatures of 230°C (446°F).

Printing is too dark.

- Change the **Toner Darkness** setting in the **Quality** menu.
- Change the **Brightness** setting in the **Quality** menu.
- Change the **Contrast** setting in the **Quality** menu.

NOTE: Macintosh computer users should make sure the lines per inch (lpi) setting is not set too high in the software application.

Characters have jagged or uneven edges.

- Change the **Print Resolution** setting in the **Quality** menu to 600 dpi, 1200 Image Q, 1200 dpi, or 2400 Image Q.

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- Enable **Enhance Fine Lines**.
- If you are using downloaded fonts, verify the fonts are supported by the printer, the host computer, and the software application.

Part or all of the page is printed in black.

Check the print cartridge to see if it is installed correctly.

The job prints, but the top and side margins are incorrect.

- Make sure the **Paper Size** setting in the **Paper menu** is correct.
- Make sure the margins are set correctly in your software application.

Ghost images appear.

- Make sure the **Paper Type** setting in the **Paper menu** is correct.
- Replace the photoconductor kit.

Gray background prints.

- The **Toner Darkness** setting may be too dark. Change the **Toner Darkness** setting in the **Quality** menu.
- Adjust the **Brightness** setting darker.
- Adjust the **Contrast** setting lighter.
- The print cartridge may be defective. Replace the print cartridge.

Some of the print is cut off on the sides, top, or bottom of the media.

Move the guides in the tray to the proper positions for the size loaded.

Print is skewed or inappropriately slanted.

Move the guides in the tray to the proper positions for the size loaded.

Transparency print quality is poor.

- Use only transparencies recommended by the printer manufacturer.
- Make sure the **Paper Type** setting in the **Paper menu** is set to **Transparency**.

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Installing the Optional Wireless Card

- Minimum Requirements for Setup
- Wireless Network Settings
- Installing the Optional Wireless Card
- Configuring the Optional Wireless Card (Windows)
- Configuring the Optional Wireless Card (Macintosh)

NOTE: The Optional Wireless Card may not be available in all regions. Check with your local Dell Sales Representative to determine availability.

Minimum Requirements for Setup

- The Dell 5210 / 5310 Wireless Option card
- The Dell Laser Printer 5210n / 5310n
- An existing wireless network
- The *Drivers and Utilities* CD that came with your printer
- A computer running one of the following operating systems:
  - Windows XP Professional x64
  - Windows XP
  - Windows 2003 Server
  - Windows 2000

Wireless Network Settings

Some wireless network settings may be needed to configure the wireless print server that has been installed in the printer. Here are some of the settings that may be needed:

- Network Name, also known as SSID (Service Set ID)
- BSS (Basic Service Set) Type (the type of wireless network you use — Ad-Hoc or Infrastructure)
- Wireless Channel Number
- Network authentication and encryption type
- Security Key(s)
- Signed Certificate or CA Certificate

Installing the Optional Wireless Card

Before installing the wireless print server, make sure the printer has been set up correctly:

- The toner or print cartridges are installed.
- Paper is loaded.
- The printer is powered off, and the power cord is unplugged.

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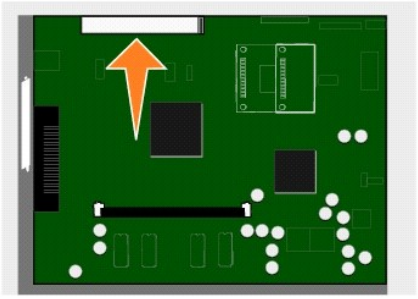
To install the wireless card:

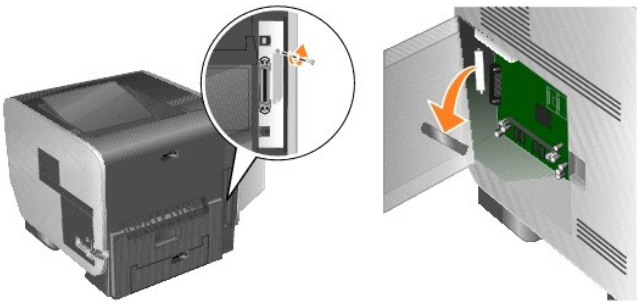
1. Open the side door.

NOTICE: Option cards are easily damaged by static electricity. Touch something metal such as the printer frame before you touch an option card.

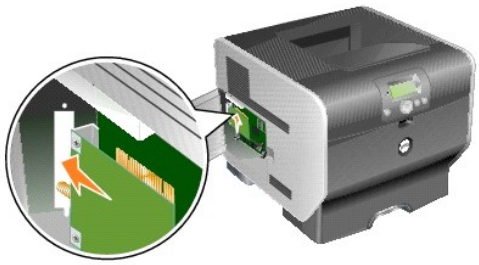
2. Locate the card connector on the system board.



3. Remove the screw and the cover plate, and save them.



4. Unpack the card. Save the packaging materials.
5. Align the connection points on the card with the connector on the system board, and push the card firmly into the system board connector.



6. Insert the screws saved from the cover plate (or the extra screw shipped with the card).
7. Tighten the screw to secure the card.

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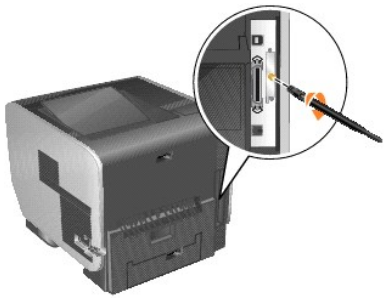
8. Attach the antenna to the option card.

   Make sure to tighten the connector until the antenna is attached securely, as a loose connection can result in a poor wireless signal.



9. Rotate the antenna until the joint allows it to be pointed up.

10. Close the side door.

11. Connect the power cord, and turn on the printer.

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Configuring the Optional Wireless Card (Windows)

Configuration Overview

After the internal wireless print server has been installed in a printer, there are two ways the print server can be configured for use on a wireless network: Configuring the print server using the Wireless Setup Utility, or by manual configuration.

Configuring the print server using the Wireless Setup Utility involves connecting the printer in which the internal wireless print server has been installed to a computer by USB cable and launching the *Drivers and Utilities* CD. The Wireless Setup Utility then provides both a Wizard mode and an Advanced mode of operation. The Wizard mode steps the user through the configuration process. The Advanced mode provides an interface through which the user can directly enter and apply the appropriate wireless configuration settings for the wireless network that the printer will be used on.

Manual configuration is intended for advanced users and involves communicating with the print server over an Ad-Hoc wireless connection without the use of the Wireless Setup Utility or a direct USB connection. Users who prefer to perform the manual configuration method require an in-depth understanding of the wireless settings for the network. For instructions on manually configuring the internal wireless print server, see Manual configuration.

Before configuring the wireless print server, make sure your printer has been set up correctly:

- The internal wireless print server option card has been installed correctly in the printer.
- All access panels and printer doors have been replaced or closed.
- The toner or print cartridges are installed correctly.
- Paper has been loaded into the printer.
- The printer is turned on and ready to be installed.

Using the Wireless Setup Utility

1. Make sure the printer is turned on and has power.
2. Connect the printer to your computer using a USB cable.
3. When the **New Hardware Wizard** appears, click **Cancel**.
4. Insert the *Drivers and Utilities* CD. The CD launches automatically.
5. Click **Configure Wireless Adapter**.
6. Click **Agree** to accept the license agreement.
7. Click **Finish** to install the files and launch the setup utility.
8. Select either **Wizard Mode** or **Advanced Mode**.
9. Click **Next**, and follow the instructions for either Wizard Mode or Advanced Mode.

NOTE: If you are configuring multiple wireless cards, you may want copy the Wireless Setup Utility to your computer system. To do this, browse to the Tools folder on the *Drivers and Utilities* CD, and copy the SetupWizard folder to your desktop or hard disk.

Wizard Mode

In **Wizard** mode, the Wireless Setup Utility gathers wireless information from the computer the printer is connected to. The results of this query determine the process for selecting the correct SSID.

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1. Select the appropriate Network Name (SSID).

   Wireless Configurations Found on Your Computer

   - If existing wireless configurations are found on the computer, select the appropriate **Network Name (SSID)** from the list, click **Next**, and go to step 2.
   - If the correct network name is not in the list, select **I want to enter a different configuration**, click **Next**, and go to Wireless Networks Available in Your Area.

   Wireless Networks Available in Your Area

   - If existing wireless configurations are not found on the computer, the setup utility scans for available wireless networks. Select the appropriate **Network Name (SSID)** from the list, click **Next**, and go to step 2.
   - If the correct network name is not in the list, select **I want to enter a different network name**, click **Next**, and go to step 3 under Entering Alternate Network Settings.

2. Select the appropriate security method, and then click **Next**. If no security was detected, go to step 4.
3. Enter the appropriate security key(s) for the network, and then click **Next**.
4. Check each network attribute on the summary screen to make sure that the settings are correct. If the settings are correct, click **Next** to apply these settings to the print server.

NOTE: Clicking **Next** will prompt the setup utility to verify wireless communication with the printer. This verification process can take up to 120 seconds. If you are sure that the wireless settings displayed on the screen are correct, and you do not want to initiate the wireless verification process, or if the print server is being configured for use on a network that is not immediately available to either the printer or the configuring computer, click the **Do not verify the print server can join the network** check box to skip the wireless verification test, and go to step 6.

5. Verify that the print server can communicate over the network.
   - If the print server was successfully configured and is available on the network, click **Finish** to close the Setup Utility.
   - If the print server was not able to join the wireless network, click **View Settings** to verify that the wireless settings are correct, select the appropriate option, and click **Next**.
6. Continue with Installing the Printer on the Network.

Entering Alternate Network Settings

Once the Wireless Setup Utility has collected and displayed the existing wireless settings, if the network configuration you want to use is not available, you have the option to enter a different network configuration.

1. After the Setup Wizard performs the site survey, select the option to enter a different configuration.
   - If wireless network configurations were found on your computer:

     From the Wireless Configurations Found on your Computer screen, select **I want to enter a different configuration**, click **Next**, and then go to step 2.
   - If no wireless network configurations were found on your computer:

     From the Wireless Networks Available in Your Area screen, select **I want to enter a different network name**, click **Next**, and then skip to step 3.
2. From the Wireless Networks Available in Your Area screen, select **I want to enter a different network name**, and then click **Next**.
3. Select the wireless mode for your network (Infrastructure or Ad-Hoc mode).
4. Enter the **Network Name (SSID)** of the network that you want to use.

NOTE: The SSID must be entered exactly as it is used on the network. SSIDs are case-sensitive, so if the SSID is entered incorrectly, the print server will not be able to communicate on the network, and the configuration process must be repeated.

5. Select the appropriate channel for the network (if applicable).
6. Click **Next**.
7. Select the type of security that your network uses, and then click **Next**.
8. If security was selected, enter the appropriate security key(s), and then click **Next**. If no security was selected, proceed to step 9.
9. Check each network attribute on the summary screen to make sure that the settings are correct. If the settings are correct, click **Next** to apply these settings to your print server.

NOTE: Clicking **Next** will prompt the setup utility to verify wireless communication with the printer. This verification process can take up to 120 seconds. If you are sure that the wireless settings displayed on the screen are correct, and you do not want to initiate the wireless verification process, or if the print server is being configured for use on a network that is not immediately available to either the printer or the configuring computer, click the **Do not verify the print server can join the network** check box to skip the wireless verification test, and go to step 11.

10. Verify that the print server can communicate over the network.
    - If the print server was successfully configured and is available on the network, click **Finish** to close the Setup Utility.
    - If the print server was not able to join the wireless network, click **View Settings** to verify that the wireless settings are correct, select the appropriate option, and click **Next**.
11. Continue with Installing the Printer on the Network.

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Advanced Mode

The Advanced Mode home screen provides additional options for using the Wireless Setup Utility. Clicking **Wizard Mode** will revert the Wireless Setup Utility to Wizard Mode. Clicking **Options** provides the following management options:

- Select either **Wizard Mode** or **Advanced Mode** as the default startup mode for the Utility.
- Select the **Do not verify the print server can join the network** check box to bypass the wireless communication verification process. The verification process can take up to 120 seconds. If the print server is being configured for use on a network that is not immediately available to either the printer or the configuring computer, or you simply do not want to verify wireless communication with the printer, select this check box, and go to step 1.

1. Select the wireless mode that the network uses (Infrastructure or Ad-Hoc mode).
2. Enter the **Network Name (SSID)** of the network for which the printer will be used.

NOTE: The SSID must be entered exactly as it is used on the network. SSIDs are case-sensitive, so if the SSID is entered incorrectly, the print server will not be able to communicate on the network, and the configuration process must be repeated.

3. Select the appropriate channel for the network.
4. Select the appropriate authentication type for the network. The authentication type options are dependent on the wireless mode that was selected in step 1, and will determine the types of encryption that will be available.

   For Infrastructure mode:

   - Open
   - Shared
   - WPA Personal
   - 802.1x — RADIUS

   For Ad-Hoc mode: Open

5. Select the appropriate encryption for the network. The type of encryption that can be used is dependent on the authentication type that was selected in step 4.

Open	• No Encryption • WEP
Shared	• WEP
WPA Personal	• TKIP
802.1x — RADIUS	• No Encryption • WEP (dynamic keys) • WEP (static keys) • WPA-TKIP **NOTE:** If 802.1x — RADIUS using EAP-TLS is the intended authentication type, a certificate request is needed to obtain a signed certificate for the device. For instructions on requesting a new signed certificate, see Creating a Certificate Request. If a different 802.1x — RADIUS authentication mechanism is used, continue to step 6.

6. Configure authentication and encryption. If none of the following options are selected, continue to step 7.

   If 802.1x — RADIUS was selected as the authentication type, click **Configure Authentication**, and follow the Configuring the Authentication Mechanism instructions.

   If **WPA Personal** was selected as the encryption type, click **Configure Encryption**, and follow the Configuring WPA Personal Encryption instructions.

   If **WEP** or **WEP (static keys)** was selected as the encryption type, click **Configure Encryption**, and follow the Configuring WEP Encryption instructions.

7. Click **Apply**.
8. Click **OK**.
9. Click **OK** to close the utility.

Configuring the Authentication Mechanism

- If **EAP-MD5**, **MSCHAPv2**, or **LEAP** is selected as the authentication mechanism:
  a. Enter an appropriate username and password for the 802.1x — RADIUS authentication server.
  b. Confirm the password.
  c. Click **OK** to return to the **Advanced Mode** home screen, and continue with step 6 of the advanced mode instructions.
- If **PEAP** is selected as the authentication mechanism:
  a. Enter an appropriate username and password for the 802.1x — RADIUS authentication server.

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b. Confirm the password.

c. Click **Install CA Certificate**.

d. Enter the path to the correct CA certificate, or click **Browse** to select the certificate. Click **OK** to install the certificate, or click **Cancel** to cancel the action.

e. Click **OK** to return to the **Advanced Mode** home screen, and continue with step 6 of the advanced mode instructions.

- If **EAP-TLS** is selected as the authentication mechanism:

  a. Enter an appropriate username for the 802.1x — RADIUS authentication server.

  b. Click **Install Signed Certificate**.

  c. Enter the path to the correct signed certificate, or click **Browse** to select the certificate. Click **OK** to install the certificate, or click **Cancel** to cancel the action.

  d. Click **Install CA Certificate**.

  e. Enter the path to the correct CA certificate, or click **Browse** to select the certificate. Click **OK** to install the certificate, or click **Cancel** to cancel the action.

  f. Click **OK** to return to the **Advanced Mode** home screen, and continue with step 6 of the advanced mode instructions.

- If **EAP-TTLS** is selected as the authentication mechanism:

  a. Select the appropriate Inner Authentication to be used in conjunction with EAP-TTLS.

  b. Enter an appropriate username and password for the 802.1x — RADIUS authentication server.

  c. Confirm the password.

  d. Click **Install CA Certificate**.

  e. Enter the path to the correct CA certificate, or click **Browse** to select the certificate. Click **OK** to install the certificate, or click **Cancel** to exit the certificate dialog.

  f. Click **OK** to return to the **Advanced Mode** home screen, and continue with step 6 of the advanced mode instructions.

Configuring WEP Encryption

1. Enter the appropriate WEP key(s). WEP encryption requires at least one WEP key, but can include up to four.
2. Select the default WEP transmit key.
3. Click **OK** to return to the **Advanced Mode** home screen, and proceed to step 7 of the advanced mode instructions.

Configuring WPA Personal Encryption

1. Enter the appropriate Pre-Shared key.
2. Click **OK** to return to the **Advanced Mode** home screen, and proceed to step 7 of the advanced mode instructions.

Creating a Certificate Request

Some authentication mechanisms require certificates to work properly. In situations in which a signed certificate is required, a certificate request must be initiated in order to create a new signed certificate.

To create a certificate request

1. Go to **Certificates→ Create Certificate Request**.
2. Enter the appropriate certificate information.
3. Click **Browse** to navigate to the location where the certificate is to be saved.
4. Click **OK** to return to the **Advanced Mode** home screen, and proceed to step 6 of the advanced mode instructions.

Installing the Printer on the Network

Once the print server has been configured, the Wireless Setup Utility will return to the initial *Drivers and Utilities* CD screen. Click **Network Installation — Install the printer for use on a network**. For more information, see Installing Drivers for Network Printing.

Installing a Network Printer on Additional Network Computers

If you are installing the network printer for use with multiple computers on the network, repeat the Installing the Printer on the Network process for each computer that will have access to the printer. The wireless print server does not need to be reconfigured for each successive installation.

Changing the Wireless Print Server Settings

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The easiest way to change settings in the wireless print server is through the embedded Web server. For this to work, the printer must be successfully installed on the network.

1. Enter the IP address of the printer in a browser window. The embedded Web page for the print server appears.

   To locate the IP address of the printer, print a network setup page.

   a. Make sure the printer is on.

   b. Press the **Menu** button on the operator panel.

   c. Press the **Down** arrow button until appears next to **Reports**, and then press the **Select** button .

   d. Press the **Down** arrow button until appears next to **Network Setup Page**, and then press the **Select** button .

NOTE: If an optional print server is installed, Print Net1 Setup appears on the display.

   e. Check the first section on the network setup page, and confirm that **Status** is "Connected."

   If **Status** is "Not Connected," the LAN drop may not be active, or the network cable may be malfunctioning. Consult a system support person for a solution, and print another network setup page to verify the printer is connected to the network.

2. Select the settings you want to change, such as IP address.
3. Enter the changes, and then click **Submit**.

Manual configuration

The Dell 5210/5310 Wireless Option card is shipped with default settings that let you configure it in Ad-Hoc mode by accessing the embedded Web page of the print server.

Because this configuration method does not use the Wireless Setup Utility or a direct USB connection to the computer, several of the wireless settings on both the computer and the network will need to be accessed. As a result, extensive knowledge of wireless network and computer settings will be needed to complete the configuration process.

NOTE: To configure the wireless print server by this method, the computer that is used to facilitate the configuration process must have a wireless network card.

Before configuring the wireless print server, make sure your printer has been set up correctly:

- The internal wireless print server option card has been installed correctly in the printer.
- The toner or print cartridges are installed correctly.
- Paper has been loaded into the printer.
- The printer is turned on and ready to be installed.

Configuring the Print Server in Ad-Hoc Mode

1. Make sure the printer power light is on.
2. Access and record the computer's current wireless network parameters.

   For information on accessing the current wireless network parameters, see the wireless network documentation, or contact your network support person.

3. Change the current wireless network parameters to the following values:

Wireless network parameter	Set to
SSID (Network Name or Service Set ID)	print server
Basic Service Set Type (BSST)	Ad-Hoc
Data Encryption Mode	None
WEP Key	None

4. Check the IP address of the printer.

   The printer will be assigned an IP address through the AutoIP method. This address should be in the range of 169.254. To locate the printer IP address, print a network setup page.

5. Make sure the PC has assigned itself an IP address that is different than the printer, but is still within the same IP range. For example:

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Device	IP address
Computer	169.254.10.40
Print server	169.254.10.41

If the computer IP address is not within the same range as the print server, the IP address will need to changed so that it is within the appropriate range.

For information on locating and changing the computer IP address, see the computer or operating system documentation.

6. Open a Web browser, and enter the print server IP address as the URL to access the embedded Web page of the print server.

NOTE: If 802.1x — RADIUS is the intended Wireless Security Mode for the network, and a signed certificate and/or CA certificate is required for the authentication method, see Certificate Management to establish the necessary certificates before continuing with the configuration process.

7. Click **Configuration** on the left side of the Web page.
8. Under Other Settings, click **Network/Ports**.
9. Under Network/Ports, click **Wireless**.
10. Change the listed network settings to match the wireless network that the printer will be used on, including:
    - SSID
    - BSS type
    - Channel Number (Ad-Hoc only)
    - Wireless Security Mode
    - Encryption Mode (If applicable)

    The SSID must be entered exactly as it is used on the network. SSIDs are case-sensitive, so if the SSID is entered incorrectly, the print server will not be able to communicate on the network, and the configuration process must be repeated.

NOTE: If WEP is selected as the security mode, click **Advanced Settings** for the option to enter additional WEP security keys.

11. Click **Submit**.
12. Restore the computer's wireless network settings back to the original values that were recorded in step 3.

Certificate Management

Some authentication mechanisms associated with the 802.1x — RADIUS Wireless Security mode require the use of either a CA Certificate (PEAP and EAP-TTLS), or both a Signed Certificate and a CA Certificate (EAP-TLS).

To manage certificates for use with 802.1x — RADIUS

1. From the print server embedded Web page, click **Configuration** on the left side of the page.
2. Click **Certificate Management**.
3. Complete the appropriate management option(s).
4. Return to the embedded Web page home screen and go to step 7 of the Configuring the Print Server in Ad-Hoc Mode instructions.

To install a new CA Certificate

1. Under Certificate Configuration, click **Install A New Certificate Authority Certificate**.
2. Browse to the correct certificate location, and click **Submit**.

To request and install a new Signed Certificate

1. Under Certificate Configuration, click **Update The Certificate Signing Request.**
2. Enter the appropriate certificate information.
3. Click **Update Certificate Signing Request**.
4. Under Certificate Signing Request, click **Download The Certificate Signing Request**.
5. Use your certificate authority to sign the Certificate. For more information on signed certificates, see your 802.1x — RADIUS documentation.
6. Under Certificate Configuration, click **Install New Certificate**.

Configuring the Print Server Using the Printer Operator Panel

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The option to set the Network Name (SSID) and Network Mode (Ad-Hoc or Infrastructure) using the printer operator panel is available for certain printer models. See your printer documentation for information on navigating the printer menus to help locate the appropriate menu option. Menu names pertaining to wireless settings may vary between different printer models.

NOTE: This configuration method is not recommended for networks that include wireless security as the Network Name and Network Mode are the only configurable wireless settings available through the printer operator panel.

Installing the Printer on the Network

Once the print server has been configured, insert the *Drivers and Utilities* CD. Click **Network Installation — Install the printer for use on a network**. For more information, see Installing Drivers for Network Printing.

Installing a Network Printer on Additional Network Computers

If you are installing the network printer for use with multiple computers on the network, repeat the Installing the Printer on the Network process for each computer that will have access to the printer. The wireless print server does not need to be reconfigured for each successive installation.

Configuring the Optional Wireless Card (Macintosh)

Configuration Overview

After the internal wireless print server has been installed in a printer, it must be configured for use on a wireless network. Configuring the print server involves using Zero configuration networking to connect to the print server over the computer to computer (Ad-Hoc) wireless network and changing the print server wireless network settings.

The configuration process accommodates networks that use either Infrastructure mode (in which the network structure is based on a series of wireless routers or base stations) or Ad-Hoc mode (in which wireless devices communicate with each other directly without using a wireless router).

Infrastructure mode	Ad-Hoc mode

Before configuring the wireless print server, make sure your printer has been set up correctly:

- The internal wireless print server option card has been installed correctly in the printer.
- All access panels and printer doors have been replaced or closed.
- The toner or print cartridges are installed correctly.
- Paper has been loaded into the printer.
- The printer is turned on and ready to be installed.

Configuring Your Wireless Print Server

1. In the Applications folder, open **Internet Connect**, and click the **AirPort** icon in the toolbar.
2. In the Network pop-up menu, select the **print server** network.
3. Open the Safari Web browser, and select **Show All Bookmarks** from the Bookmarks menu.
4. Select **Rendezvous** or **Bonjour** from the Collections column on the left-hand side of the window.
5. In the right-hand column, double-click the MarkNet N8050 wireless print server bookmark.

NOTE: If 802.1x — RADIUS is the intended Wireless Security Mode for the network, and a signed certificate and/or CA certificate is required for the authentication method, see Certificate Management to establish the necessary certificates before continuing with the configuration process.

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6. Once the print server internal Web page loads, in the left-hand column, click **Configuration**.
7. Under Other Settings, click **Network/Ports**.
8. Under Network/Ports, click **Wireless**.
9. Change the listed network settings for the wireless print server to match your wireless network, including:
    - SSID
    - BSS type
    - Channel Number (for Ad-Hoc networks only)
    - Wireless Security Mode
    - Authentication Mode (If applicable)

    The SSID must be entered exactly as it is used on your network. SSIDs are case-sensitive, so if the SSID is entered incorrectly, the print server will not be able to communicate on the network.

NOTE: If WEP is selected as the security mode, click **Advanced Settings** for the option to enter additional WEP security keys.

10. Click **Submit**.
11. Wait 10 seconds while the print server resets.
12. In the Applications folder, open **Internet Connect**, and click the **AirPort** icon in the toolbar.
13. In the Network pop-up menu, select your original wireless network to restore your computer's wireless network settings back to the original values.

Certificate Management

Some authentication mechanisms associated with the 802.1x — RADIUS Wireless Security mode require the use of either a CA Certificate (PEAP and EAP-TTLS), or both a Signed Certificate and a CA Certificate (EAP-TLS).

To manage certificates for use with 802.1x—RADIUS

1. From the print server embedded Web page, click **Configuration** on the left side of the page.
2. Click **Certificate Management**.
3. Complete the appropriate management option(s).
4. Return to the embedded Web page home screen, and go to step 6 of the Configuring Your Wireless Print Server instructions.

To install a new CA Certificate

1. Under Certificate Configuration, click **Install A New Certificate Authority Certificate**.
2. Browse to the correct certificate location, and click **Submit**.

To request and install a new Signed Certificate

1. Under Certificate Configuration, click **Update The Certificate Signing Request.**
2. Enter the appropriate certificate information.
3. Click **Update Certificate Signing Request**.
4. Under Certificate Signing Request, click **Download The Certificate Signing Request**.
5. Use your certificate authority to sign the Certificate. For more information on signed certificates, see your 802.1x — RADIUS documentation.
6. Under Certificate Configuration, click **Install New Certificate**.

Configuring the Print Server Using the Printer Operator Panel

The option to set the Network Name (SSID) and Network Mode (Ad-Hoc or Infrastructure) using the printer operator panel is available for certain printer models. See your printer documentation for information on navigating the printer menus to help locate the appropriate menu option. Menu names pertaining to wireless settings may vary between different printer models.

NOTE: This configuration method is not recommended for networks that include wireless securit,y as the Network Name and Network Mode are the only configurable wireless settings available through the printer operator panel.

Installing Your Printer on the Network

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Once the print server has been configured, insert the *Drivers and Utilities* CD. Click **Network Installation — Install the printer for use on a network**. For more information, see Installing Drivers for Network Printing.

Installing your network printer on additional network computers

If you are installing the network printer for use with multiple computers on the network, repeat the Installing the Printer on the Network process for each computer that will have access to the printer. The wireless print server does not need to be reconfigured for each successive installation.

Changing the Wireless Print Server Settings

The easiest way to change settings in the wireless print server is through the embedded Web server. For this to work, you must successfully complete the installation of the printer on your network.

1. Open the Safari Web browser, and select **Show All Bookmarks** from the Bookmarks menu.
2. Select **Rendezvous** or **Bonjour** from the Collections column on the left-hand side of the window.
3. In the right-hand column, double-click your printer's bookmark.
4. Select the settings you want to change.
5. Enter the changes, and then click **Submit**.

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Regulatory Notices for Wireless Option

Operational Information

Wireless interoperability

The Dell 5210 / 5310 Wireless Option is designed to be interoperable with any wireless LAN product that is based on direct sequence spread spectrum (DSSS) radio technology and orthogonal frequency division multiplexing (OFDM) and to comply with the following standards:

- IEEE 802.11b-1999 Standard on 2.4 GHz Wireless LAN
- IEEE 802.11g Standard on 2.4 GHz Wireless LAN
- Wireless Fidelity (Wi-Fi) certification, as defined by the WECA (Wireless Ether-net Compatibility Alliance)

Safety

The Dell 5210 / 5310 Wireless Option, like other radio devices, emits radio frequency electromagnetic energy. The level of energy emitted by this device, however, is less than the electromagnetic energy emitted by other wireless devices such as mobile phones. The Dell 5210 / 5310 Wireless Option operates within the guidelines found in radio frequency safety standards and recommendations. These standards and recommendations reflect the consensus of the scientific community and result from deliberations of panels and committees of scientists who continually review and interpret the extensive research literature. In some sit-uations or environments, the use of the Dell 5210 / 5310 Wireless Option may be restricted by the proprietor of the building or responsible repre-sentatives of the applicable organization. Examples of such situations include the following:

Using the Dell 5210 / 5310 Wireless Option in any other environment where the risk of interference with other devices or services is perceived or identified as being harmful.

If you are uncertain of the policy that applies to the use of wireless devices in a specific organization or environment (an airport, for example), you are encour-aged to ask for authorization to use the Dell 5210 / 5310 Wireless Option before you turn it on.

Regulatory Information

The Dell 5210 / 5310 Wireless Option must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product. For country-specific approvals, see Radio Approvals. Dell Inc is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this Dell 5210 / 5310 Wireless Option card, or the substitution or attachment of connecting cables and equipment other than that specified by Dell Inc. The correction of interference caused by such unauthorized modification, sub-stitution or attachment is the responsibility of the user. Dell Inc and its authorized resellers or distributors are not liable for any damage or violation of government regulations that may arise from the user failing to comply with these guidelines.

USA - Federal Communications Commission (FCC)

FCC Radiation Exposure Statement

WARNING: The radiated output power of the Dell 5210 / 5310 Wireless Option is far below the FCC radio frequency exposure limits. Nevertheless, Dell 5210 / 5310 Wireless Option should be used in such a manner that the potential for human contact during normal operation is min-imized. To avoid the possibility of exceeding the FCC radio frequency exposure limits, you should keep a distance of at least 20 cm between you (or any other person in the vicinity) and the antenna that is built into the printer. To determine the location of the antenna within your printer, check the information posted on the general Dell support site at http://support.dell.com.

For SAR purposes,this is considered a mobile device and calculations have been performed and the device has been shown to be compliant with the FCC RF exposure limits under mobile exposure conditions.

Radio Frequency Interference Requirements

WARNING: Dell 5210 / 5310 Wireless Option
This device is restricted to indoor use due to its operation in the 5.15 GHz to 5.25 GHz fre-quency range. The FCC requires this product to be used indoors for the frequency range 5.15 GHz to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

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High power radars are allocated as primary users of the 5.25 GHz to 5.35 GHz and 5.65 GHz to 5.85 GHz bands. These radar stations can cause interference with this device, or can cause damage to this device, or both.

Interference Statement

These devices comply with Part 15 of the FCC Rules. Operation of the devices is subject to the following two conditions: (1) The devices may not cause harmful interference, and (2) The devices must accept any interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential instal-lation. This equipment generates, uses, and can radiate radio frequency energy. If the equipment is not installed and used in accordance with the instructions, the equipment may cause harmful interference to radio communications. There is no guarantee, however, that such interference will not occur in a particular installa-tion. If this equipment does cause harmful interference to radio or television reception (which can be determined by turning the equipment off and on), the user is encouraged to try to correct the interference by taking one or more of the follow-ing measures:

- Relocate this device.
- Increase the separation between the device and the receiver.
- Connect the device into an outlet on a circuit different from that of other elec-tronics.
- Consult the dealer or an experienced radio technician for help.

NOTE: This Dell 5210 / 5310 Wireless Option must be installed and used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the prod-uct. Any other installation or use will violate FCC Part 15 regulations. Modifications not expressly approved by Dell could void your authority to operate the equipment.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

Canada. Industry Canada (IC)

This device complies with RSS210 of Industry Canada.

⚠ **CAUTION: Exposure to Radio Frequency Radiation.**
The installer of this radio equipment must ensure that the antenna is located or pointed such that it does not emit RF field in excess of Health Canada limits for the general population; con-sult SafetyCode 6, obtainable from Health Canada's website http://www.hc-sc.gc.ca/rpb.

Europe. EU Declaration of Conformity

CE 0682 Φ

Hereby, Dell Inc declares that this Dell 5210 / 5310 Wireless Option is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

بموجب هذا، تعلن Dell Inc أن هذا الملحق اللاسلكي الاختياري Dell 5210 / 5310 5/1999 يتوافق مع المتطلبات الرئيسية والأحكام ذات الصلة للتوجيه رقم EC/.

Společnost Dell Inc tímto prohlasuje, ze tento Dell 5210 / 5310 Wireless Option je ve shodě se základními pozadavky a dalsími příslusnými ustanoveními směrnice 1999/5/EC.

Hermed erklarer Dell Inc, at denne tradlose Dell 5210 / 5310 Option overholder alle vasentlige krav i direktiv 1999/5/EC.

Hierbij verklaart Dell Inc dat deze Dell 5210/5310 optionele draadloze kaart in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.

Dell Inc vakuuttaa täten että Dell 5210 / 5310 Wireless Option -tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

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Dell Inc déclare que l'option Sans fil Dell 5210 / 5310 décrite dans ce manuel d'utilisation répond aux principales exigences et aux autres dispositions respectives de la Directive européenne 1999/5/CE.

Hiermit erklärt Dell Inc, dass die Dell 5210/5310-WLAN-Optionskarte den grundlegenden Anforderungen und anderen relevanten Vorschriften der Richtlinie 1999/5/EG entspricht.

Με το παρόν έγγραφο, η Dell Inc δηλώνει ότι αυτό το ασύρματο πρόσθετο εξάρτημα Dell 5210 / 5310 συμμορφώνεται με τις θεμελιώδεις απαιτήσεις και με άλλες σχετικές διατάξεις της Οδηγίας 1999/5/EOK.

Θ ‴ Dell Inc.–“₡€–‴₦ə – ₱ ə “Θ ŋ₡ŋ฿₩ Dell 5210 / 5310 1999/5 ŋ₡‴₭ŋ₦ Rs₡‴ə Rs₡₡₭–₦Rs₡₭–₡₭–₡‴ŋ – ₡ ŋ₁ŋ ə ₩ə – /EC.

Con la presente Dell Inc dichiara che questo Dell 5210 / 5310 Wireless Option e conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Dell Inc は、この Dell 5210/5310 ワイヤレスオプションが欧州連合指令 1999/5/EC の該当規制要件に準拠していることを宣言します。

Dell Inc erklarer herved at det tradlose nettverkskortet for Dell 5210/5310 oppfyller de sentrale kravene i og andre relevante bestemmelser til 1999/5/EC-direktivet.

Firma Dell Inc oświadcza niniejszym, że opcjonalna karta bezprzewodowa Dell 5210 / 5310 jest zgodna z najważniejszymi wymogami i innymi stosownymi postanowieniami dyrektywy 1999/5/WE.

A Dell Inc declara que esta placa WLAN sem fios está em conformidade com os requisitos essenciais e outras provisoes relevantes da Directiva 1999/5/EC.

Настоящим корпорация Dell заявляет, что дополнительная плата беспроводной связи Dell 5210 / 5310 соответствует основным требованиям и соответствующим постановлениям инструкции 1999/5/EC.

因此，Dell Inc 宣布此 Dell 5210 / 5310 无线选件符合 1999/5/EC 指令的基本要求和其它相关规定。

Por medio de la presente Dell Inc declara que el Dell 5210 / 5310 Wireless Option cumple con los requisitos esenciales y cualesquiera disposiciones aplicables o exigibles de la Directiva 1999/5/CE.

Härmed intygar Dell Inc att denna *Dell 5210 / 5310 Wireless Option* star I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgar av direktiv 1999/5/EG.

İşburada, Dell Inc bu Dell 5210 / 5310 Kablosuz Seçeneğinin 1999/5/EC sayılı Direktifin temel şartlarına ve diğer ilgili hükümlerine uygun olduğunu beyan etmektedir.

France

In all Metropolitan départements, wireless LAN frequencies can be used under the following conditions, either for public or private use:

- Indoor use: maximum power (EIRP) of 100 mW for the entire 2400-2483.5 MHz frequency band.
- Outdoor use: maximum power (EIRP) of 100 mW for the 2400-2454 MHz band and with maximum power (EIRP) of 10 mW for the 2454-2483.5 MHz band.

NOTE: EIRP = effective isotropic radiated power (including antenna gain)

NOTE: Your Dell 5210 / 5310 Wireless Option transmits less than 100 mW of power, but more than 10 mW.

Radio Approvals

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It is important to ensure that you only use your radio device in countries where the device is approved for use. To determine whether you are allowed to use your wireless network device in a specific country, please check to see if the radio type number that is printed on the identification label of your device is listed on the radio approval list posted on the general Dell support site at http://support.dell.com.

In countries other than the United States and Japan, verify that the Location set-ting from the Regional Options tab in Regional and Language Options (from Control Panel) has been set to the country in which you are using your Dell 5210 / 5310 Wireless Option. This ensures compliance with local regulatory restrictions on trans-mit power and optimizes network performance.

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